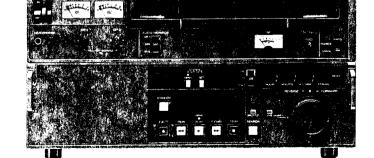
SONY®

VIDEOCASSETTE PLAYER

PVW-2600P

SERVICE MANUAL

Vol.2 1st Edition (Revised 1)
Serial No.10001 and Higher
(EK)
Serial No.10001 and Higher
(USA CANADA)





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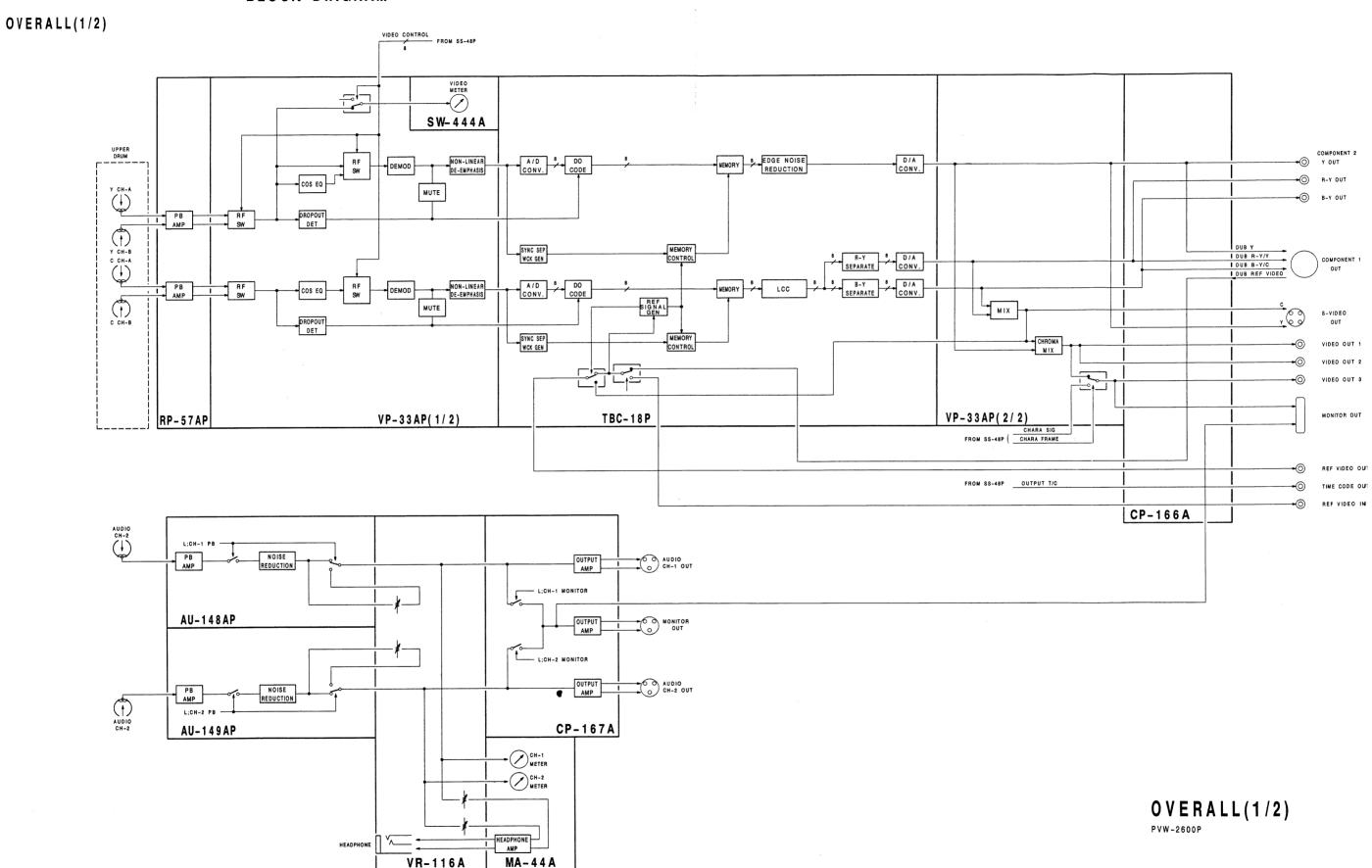
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17. SEMICONDUCTOR PIN ASSIGNMENT

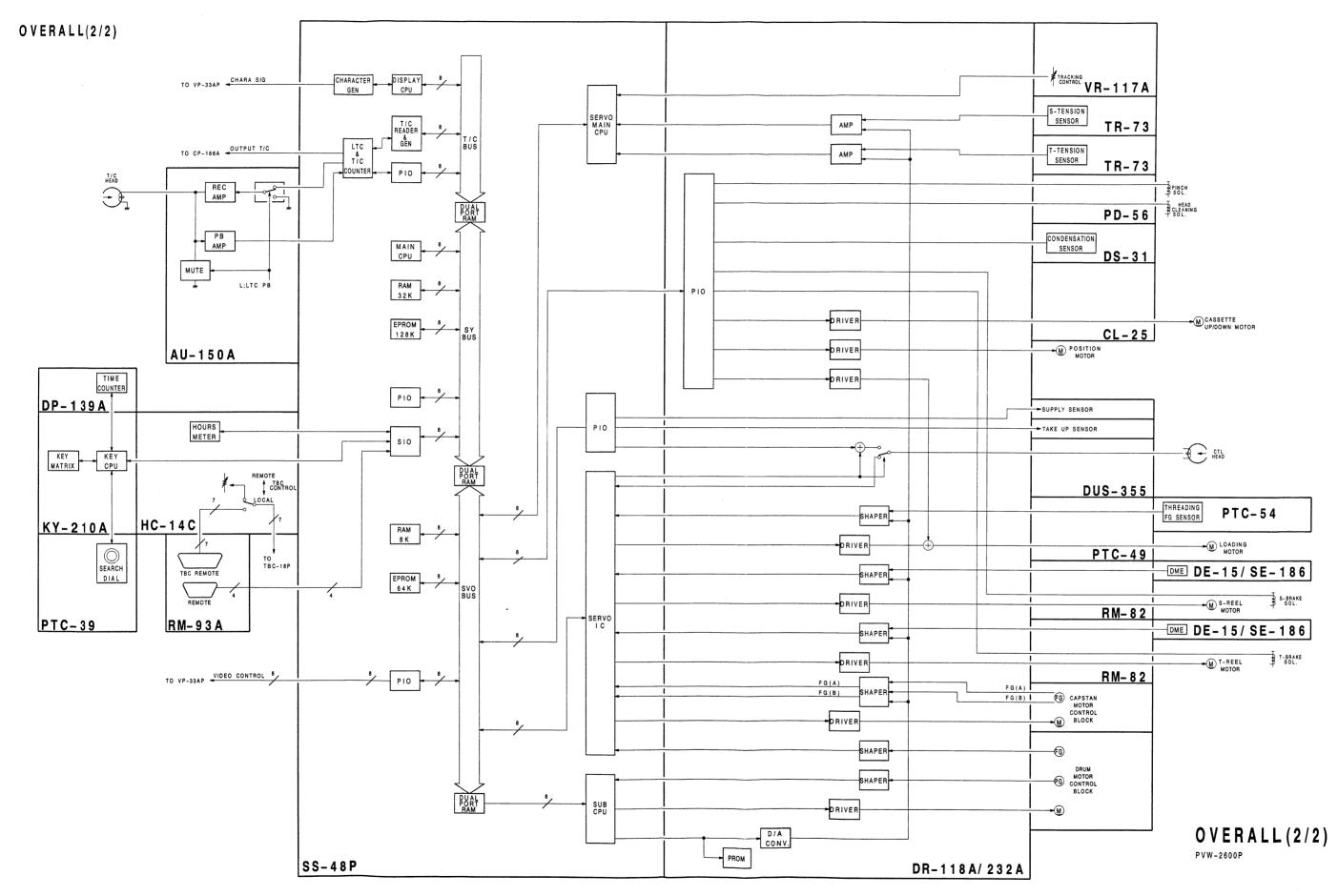
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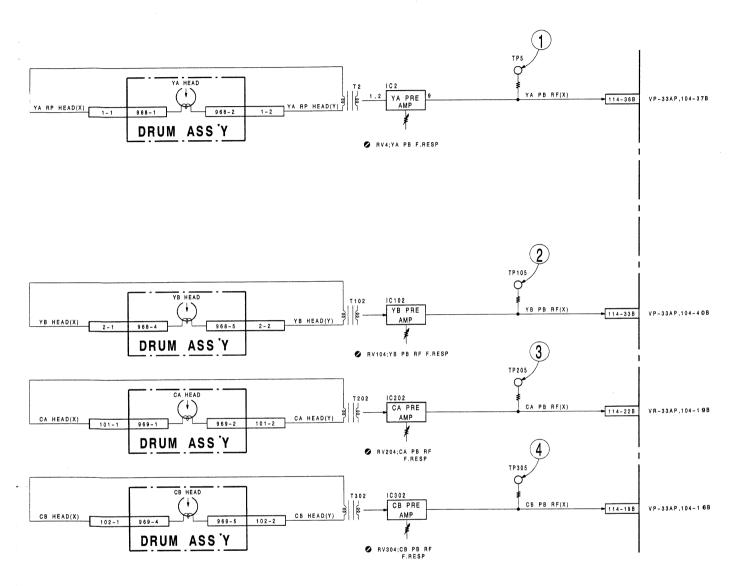
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BLOCK DIAGRAM



14-1

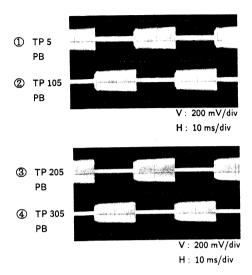


RF PB AMPLIFIER

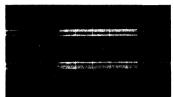


RP-57AP

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① TP 201 РΒ



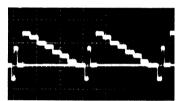
V: 200 mV/div H: 2 ms/div

② TP 202 РΒ



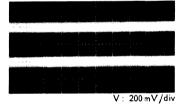
V: 200 mV/div H : 20 μs/div

③ TP 204 РΒ



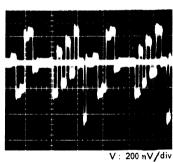
V : 500 mV/div H : 20 μs/div

④ TP 501 РΒ



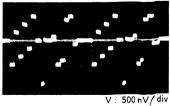
H : 20 μs/div

⑤ TP 502 РΒ

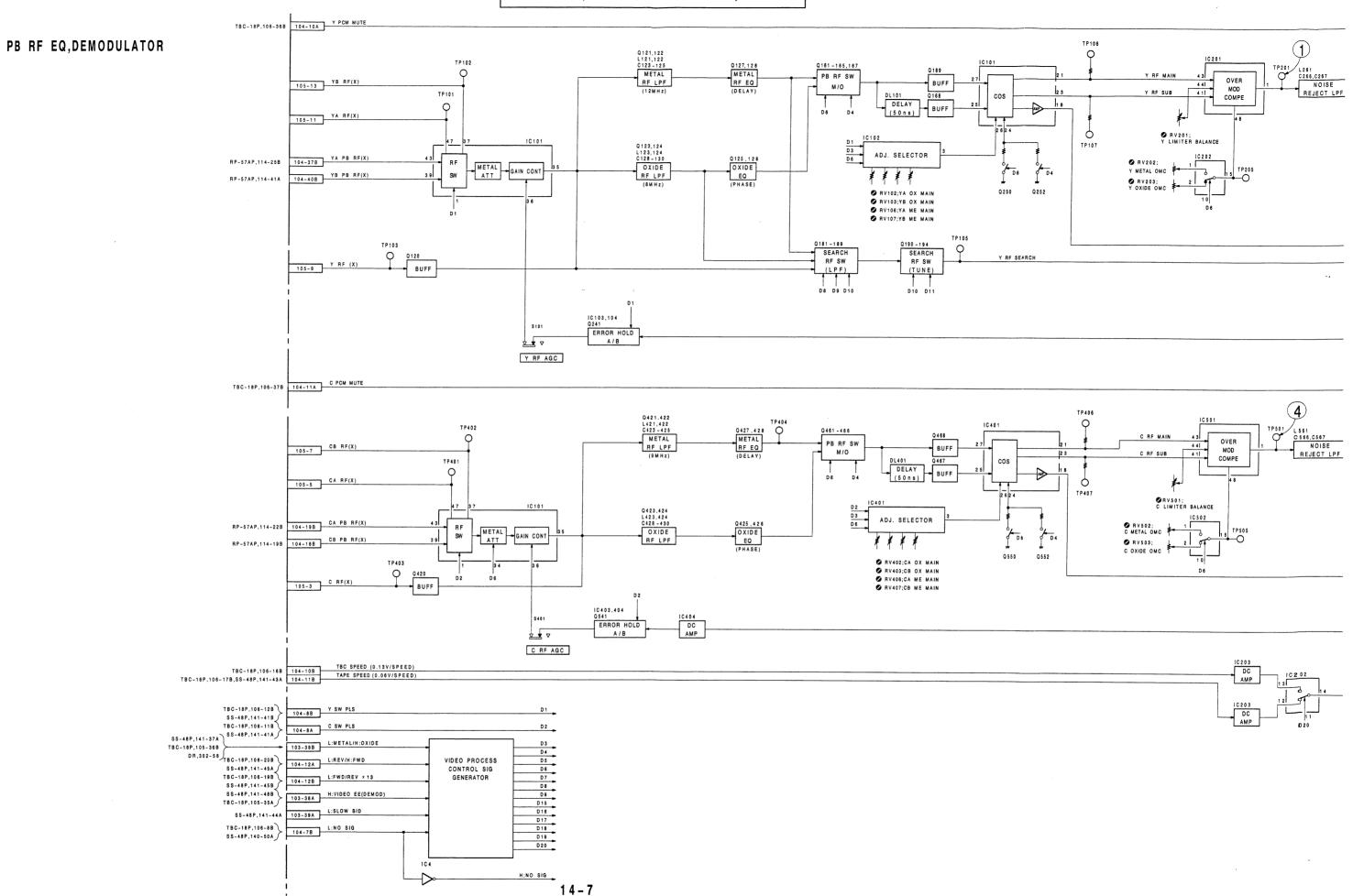


H : 20 μs/div

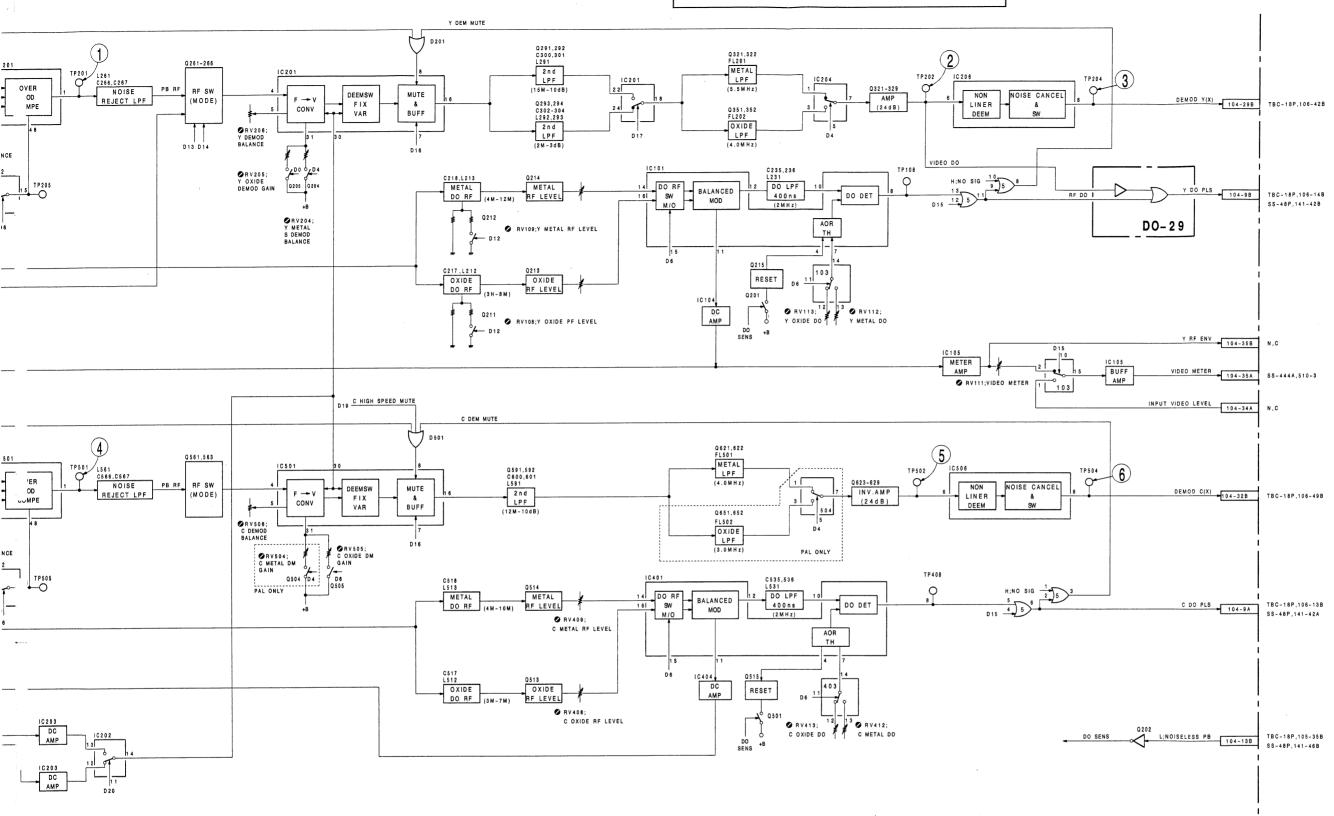
⑥ TP 504 РΒ



H : 20 μs/di**√**

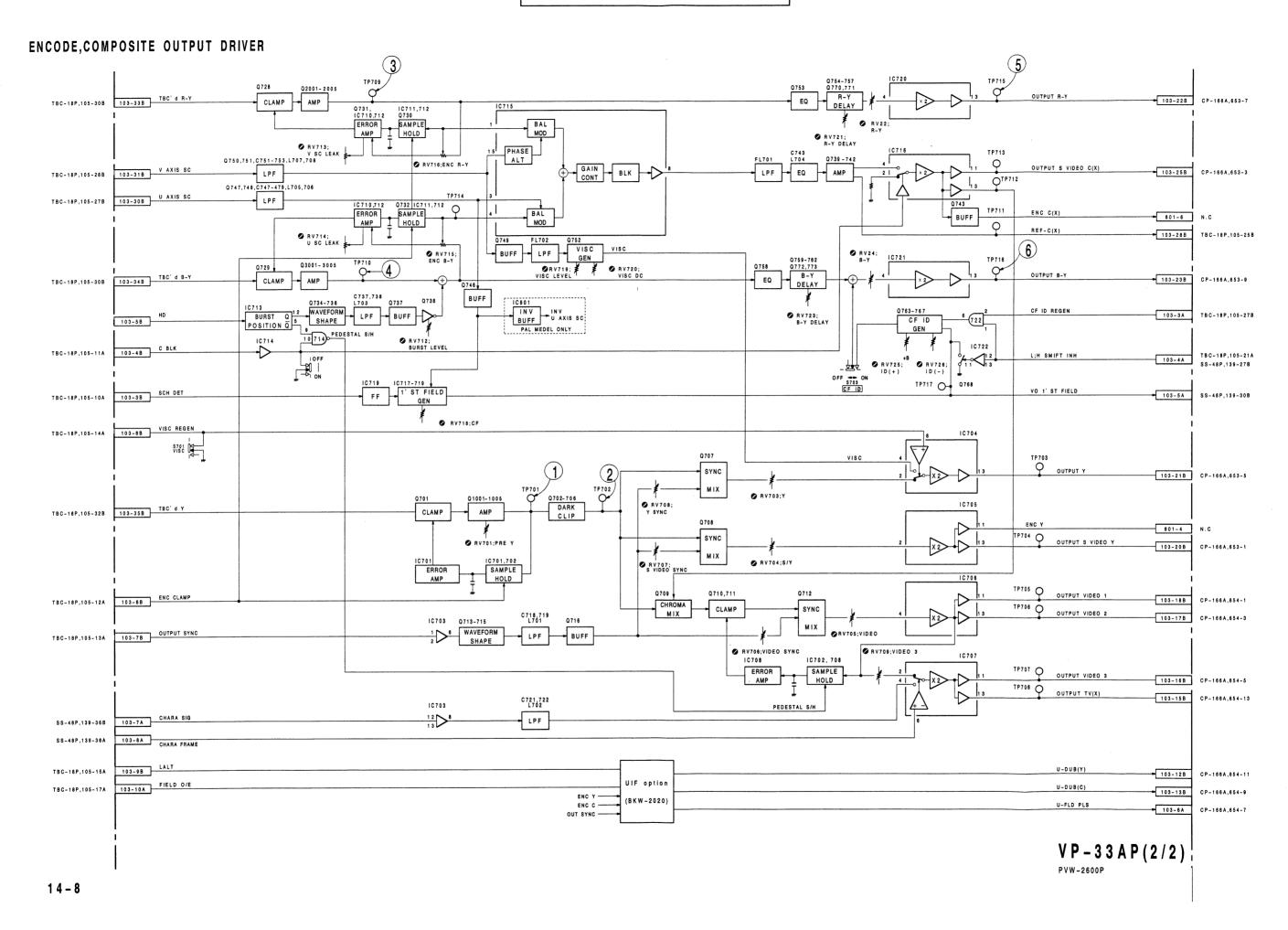


PB RF EQ,DEMOD. PB RF EQ,DEMOD.

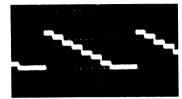


VP-33AP(1/2)

PVW-2600P



① TP 701 PB



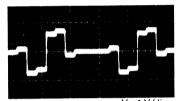
V : 1 V/div H : 20 μs/div

② TP 702 PB



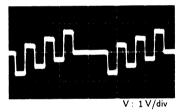
V : 1 V/div H : 20 μs/div

③ TP 709 PB



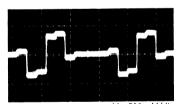
V : 1 V/div H : 20 μs/div

④ TP 710 PB



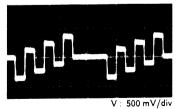
H : 20 μs/div

⑤ TP 715 PB



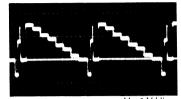
V : 500 mV/div H : 20 μs/div

⑥ TP 716 PB



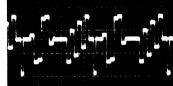
H : 20 μs/div

① TP 101 PB



V : 1 V/div H : 20 μs/div

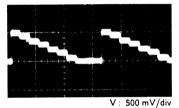
② TP 201



V : 1 V/div H : 20 μs/div

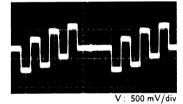
③ TP 500 PB

РΒ



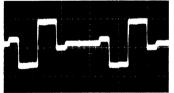
V : 500 m V / αι H : 20 μs/div

④ TP 501 PB



V : 500 m V / α H : 20 μs/div

⑤ TP 502 PB

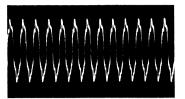


V : 500 mV/div H : 20 μs/div

TP 303
PB

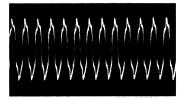


V : 2 V/div H : 20 μs/div TP 304 PB



V: 2 V/div H: 100 ns/div

TP 403 PB



V: 2 V/div H: 100 ns/div

A/D CONV.

1C405,406 2 RV 402; C ERR CLIP

CLAMP - WF

IC410 +

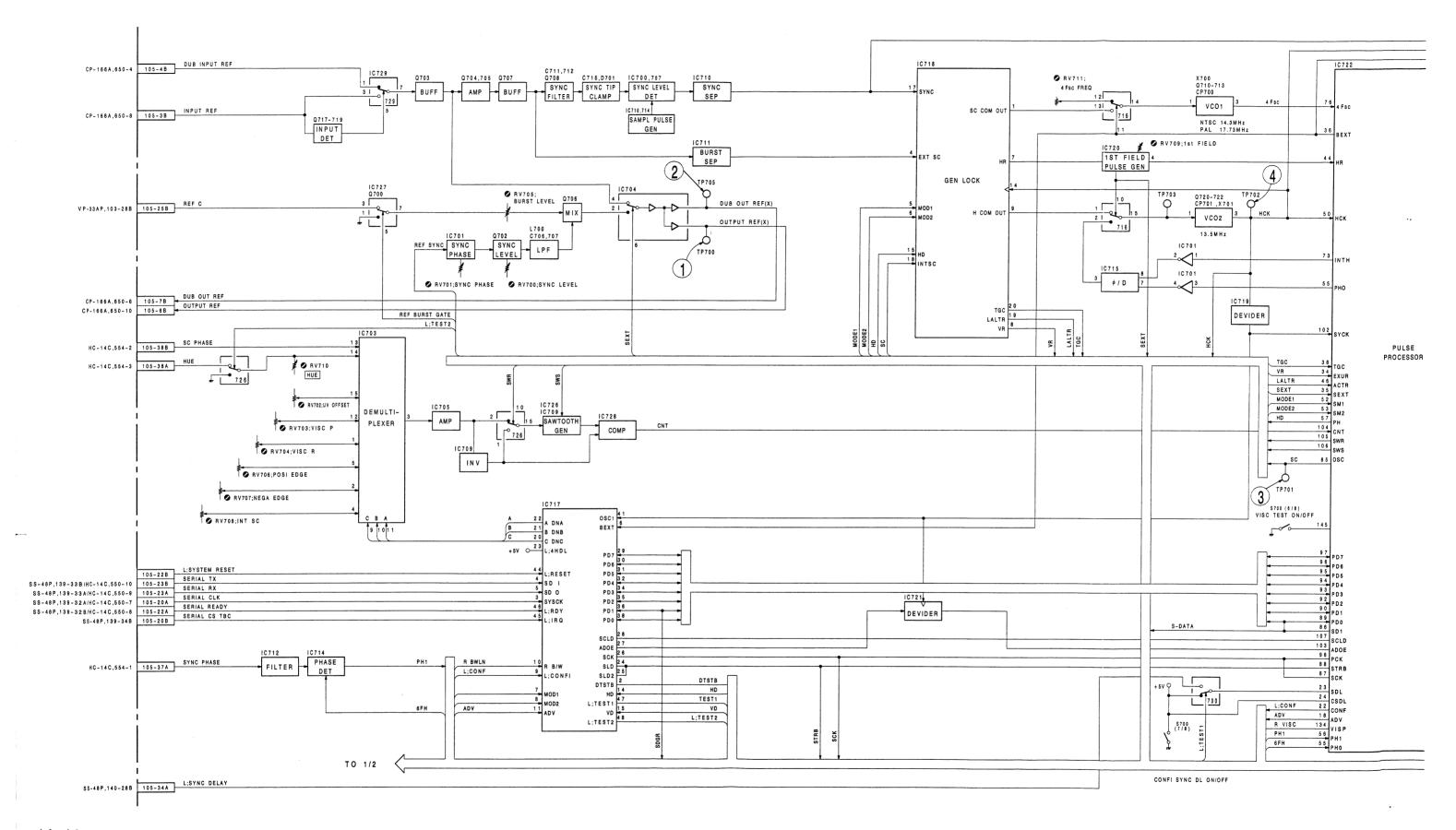
LV400; AMP

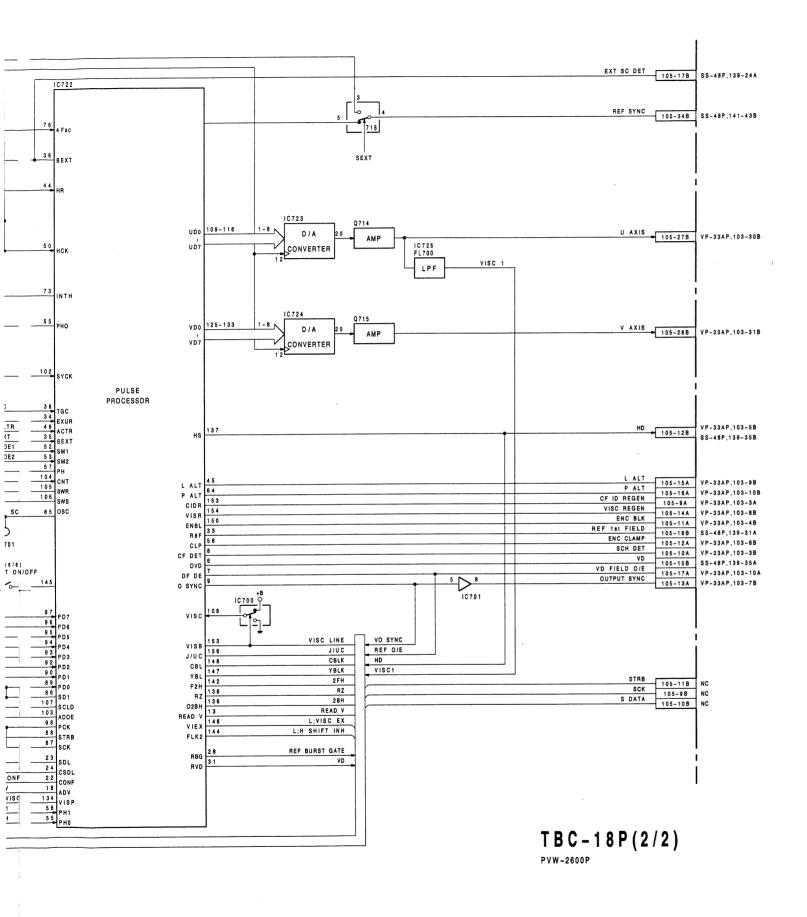
10404

PY400; YC DELAY

VP-33AP,104-11B SS-48P,141-43A L;METAL/H;OXIDE

TIME BASE CORRECTOR





- ① TP 700
- ② TP 705 PB



V : 500 mV/div

H : 20 μs/div

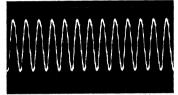
③ TP 701 PB



V: 2 V/div

H : 100 ns/div

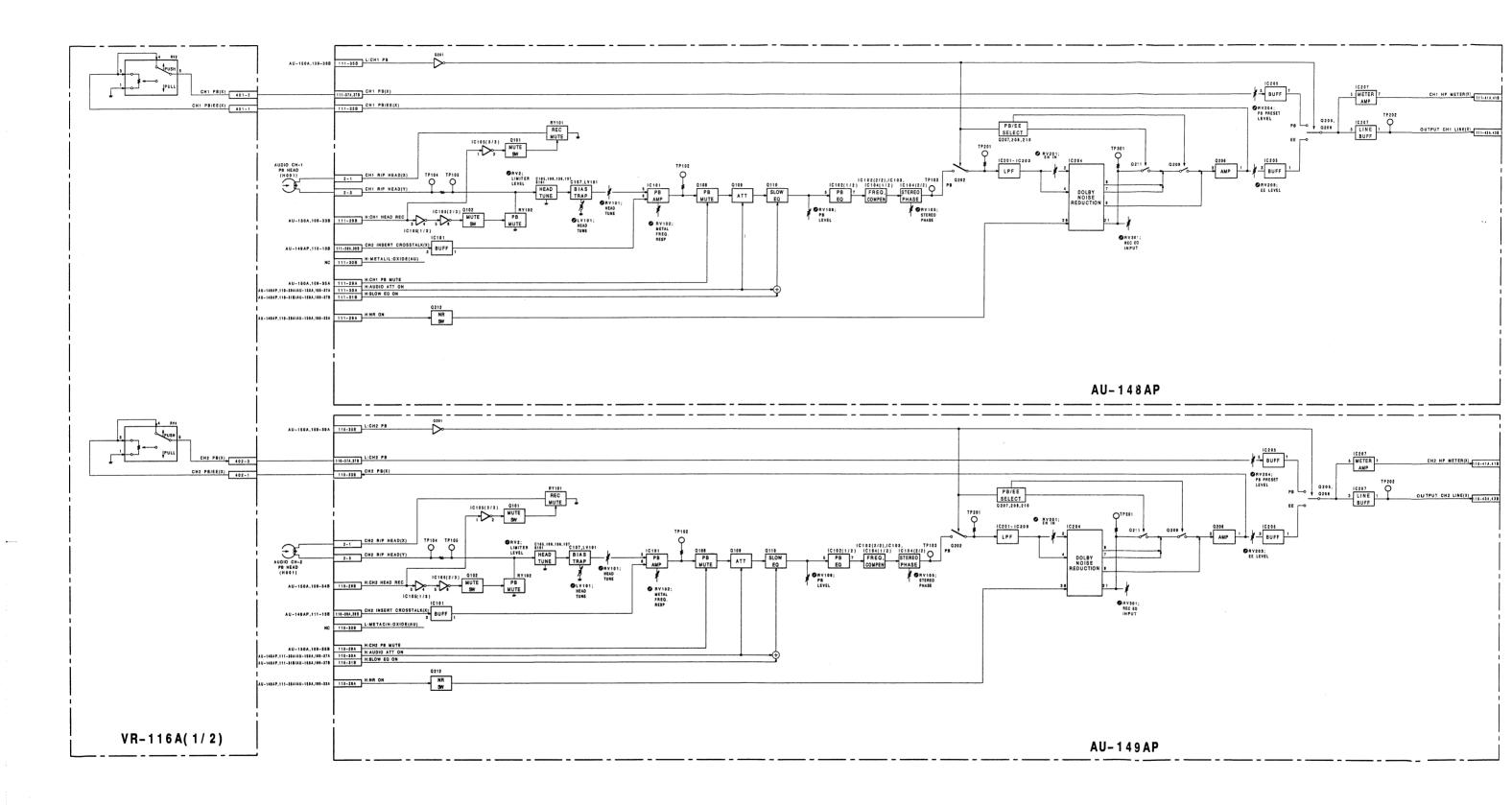
TP 702 PB

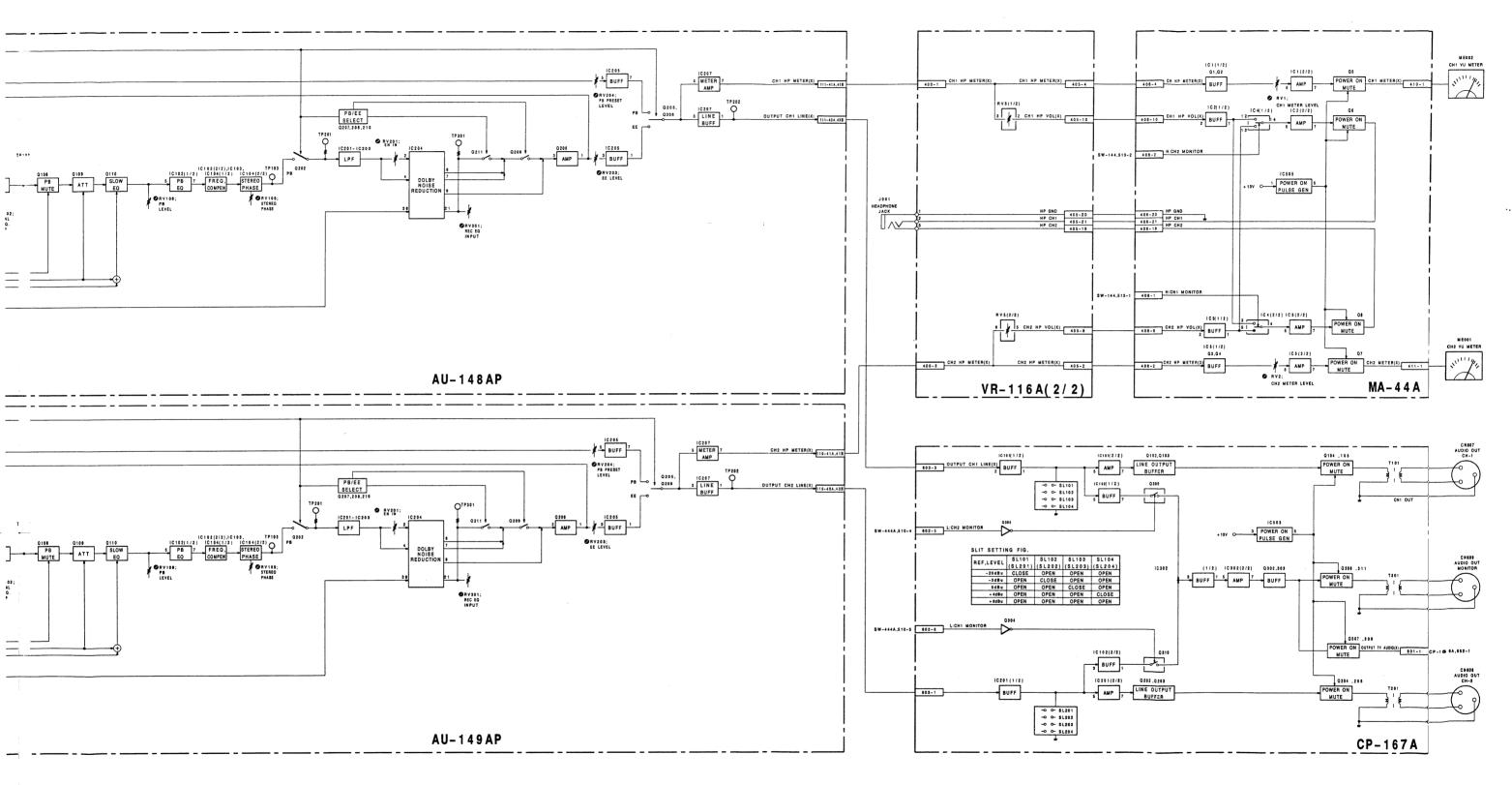


V: 2 V/div

H: 100 ns/div

AUDIO CH-1/CH-2 PB PROCESS, DOLBY SYSTEM, OUT DRIVER, METER DRIVER

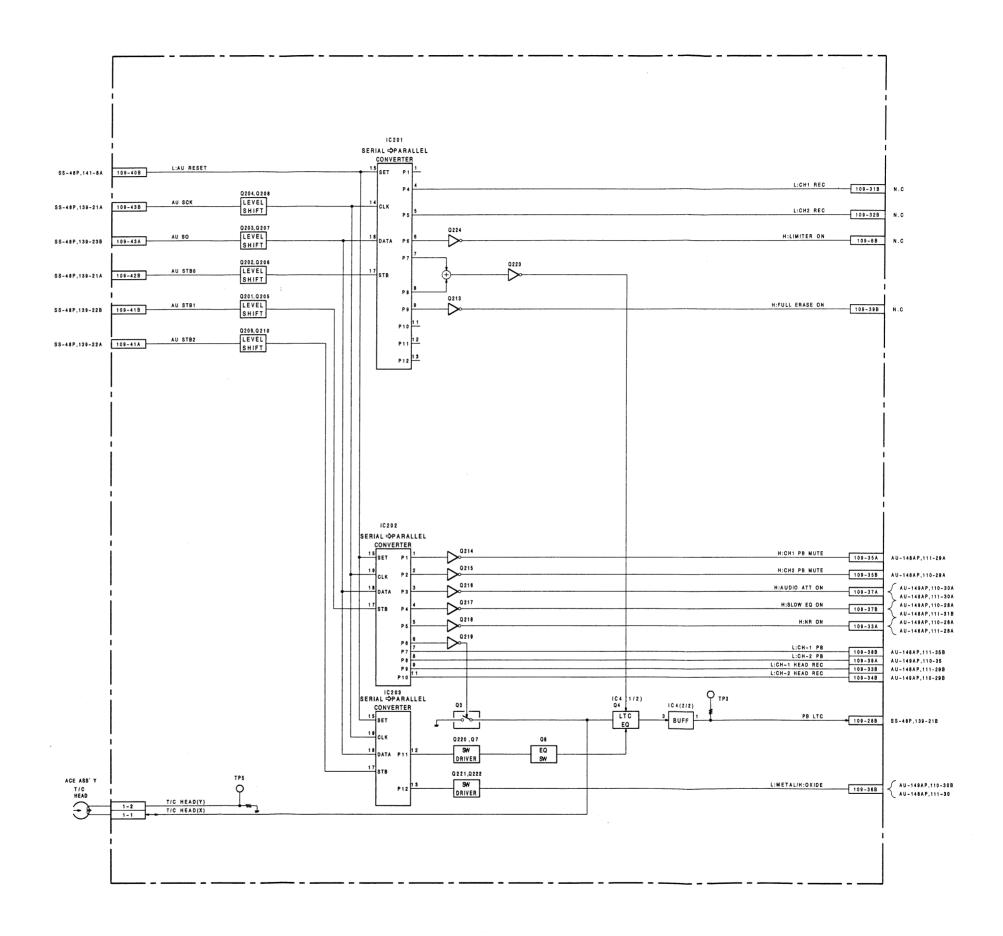


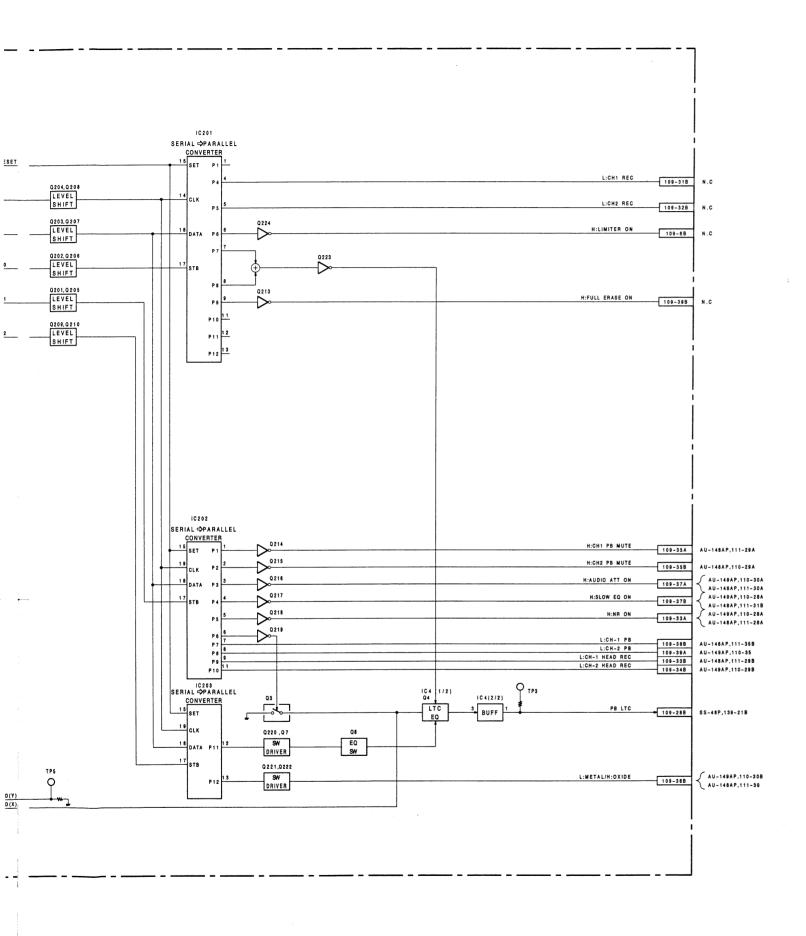


AU-148AP/149AP

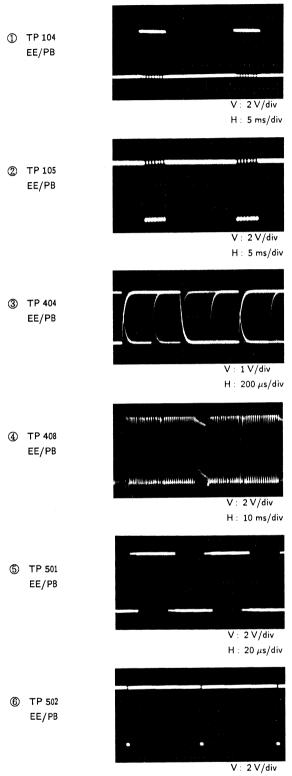
VW-2600P

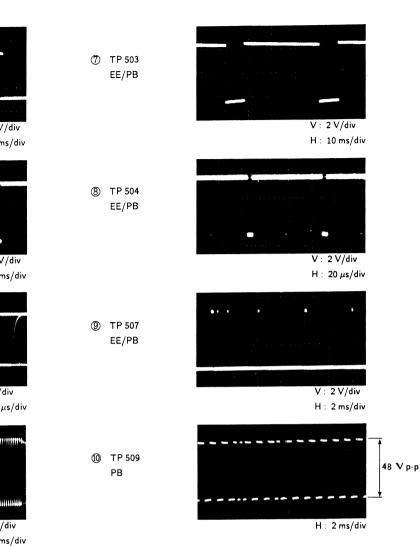
AUDIO MODE CONTROL,LTC PB



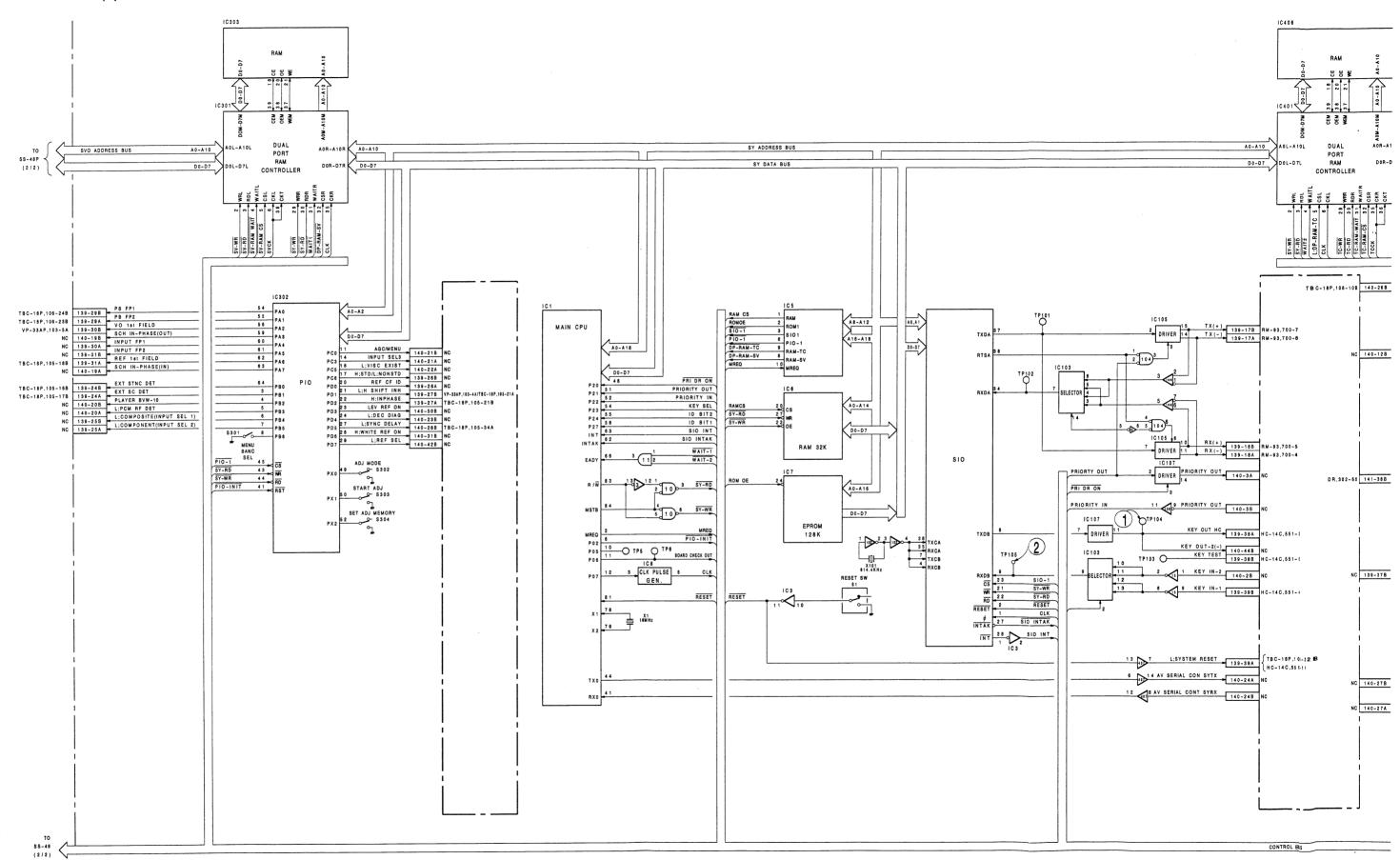


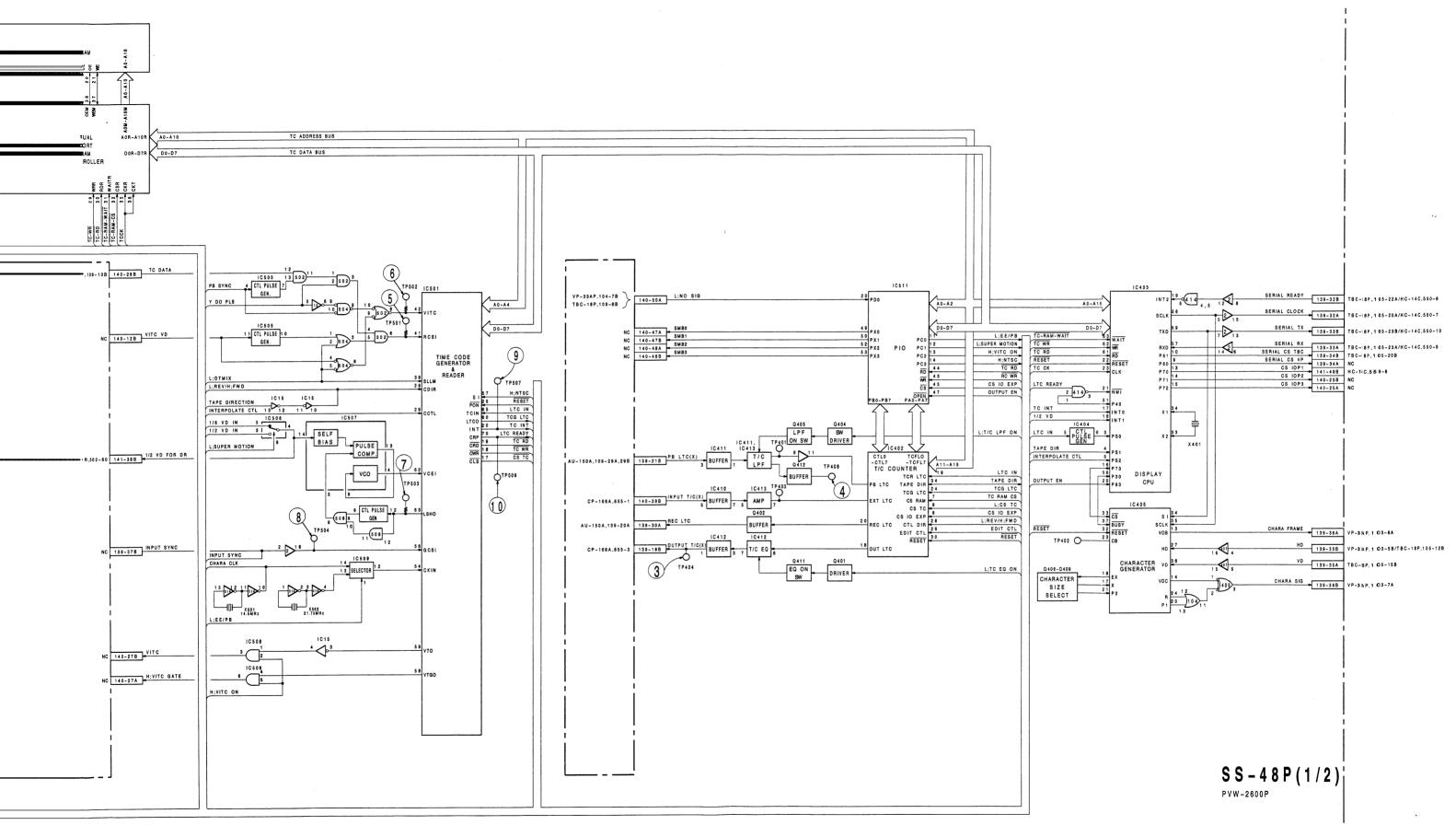
AU-150A PVW-2600P

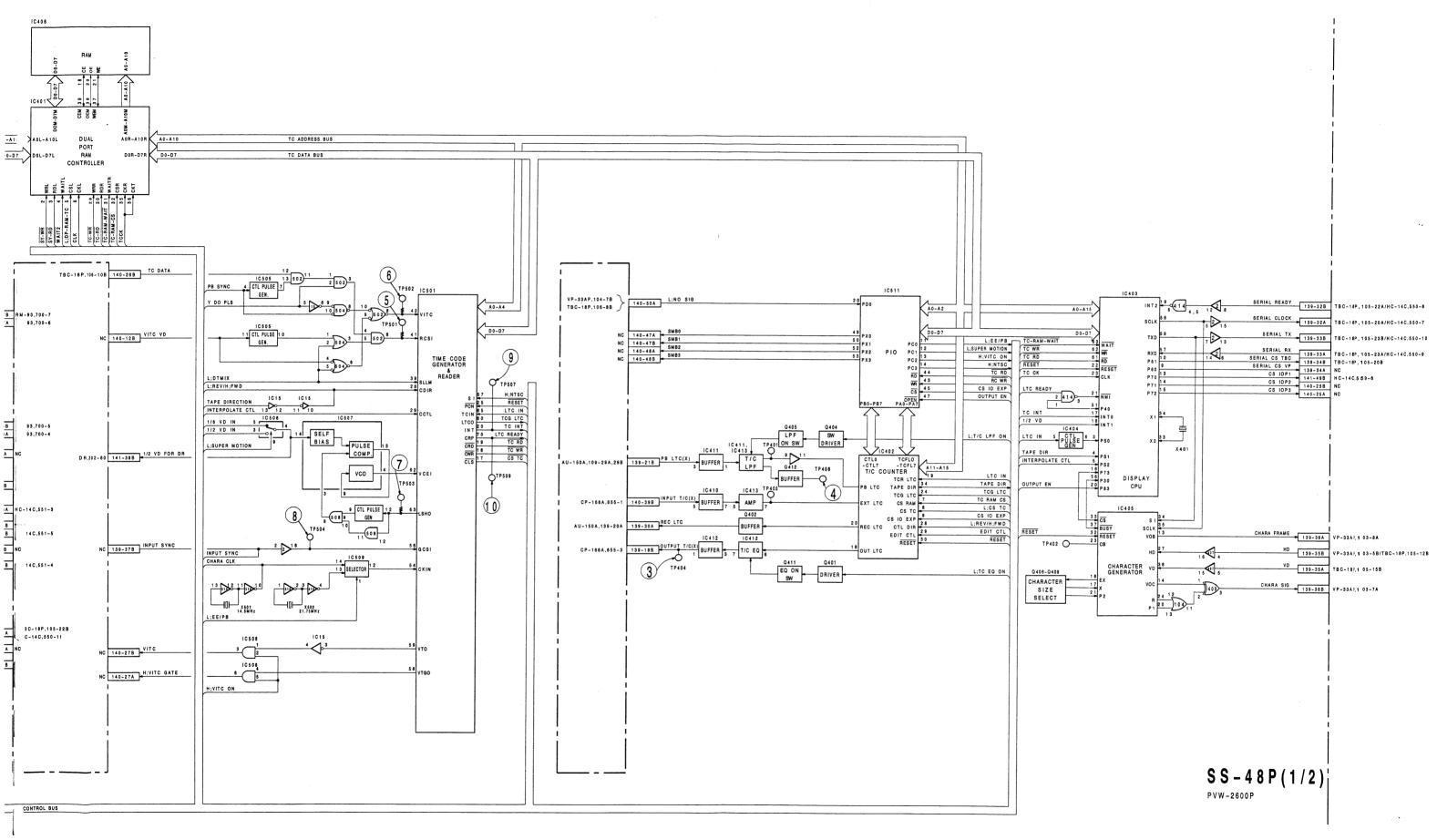




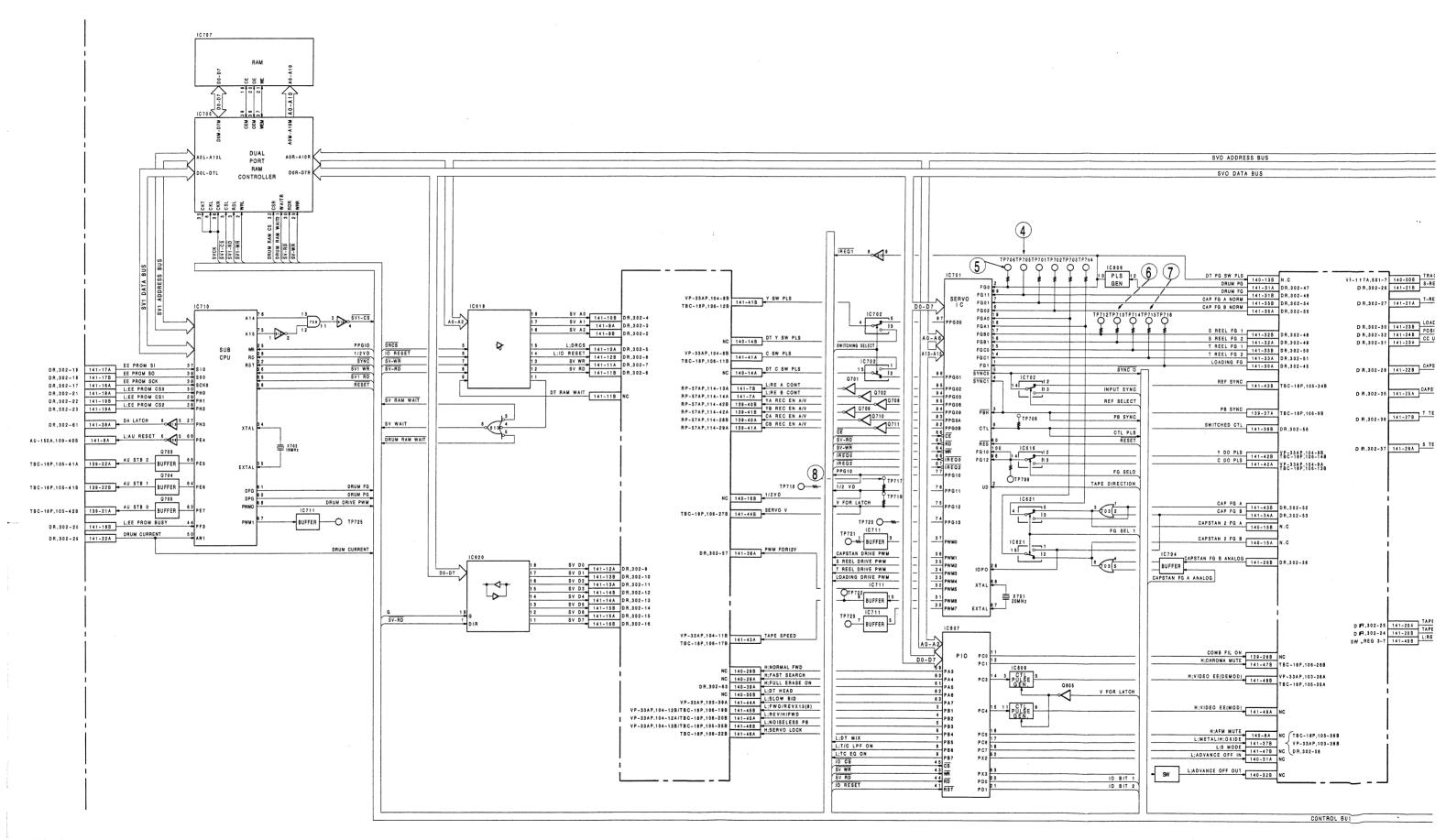
SYSTEM CONTROL(1)

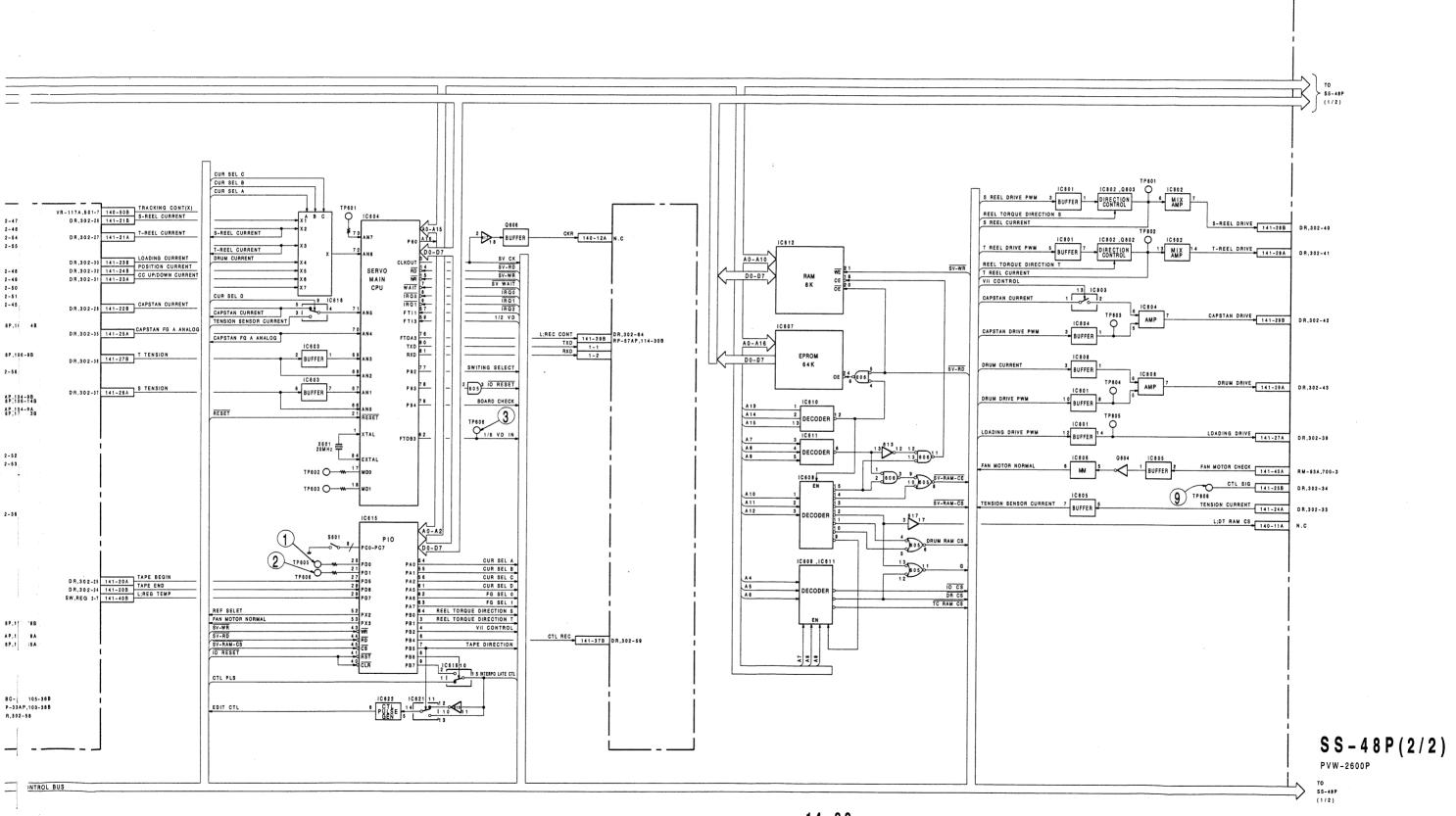


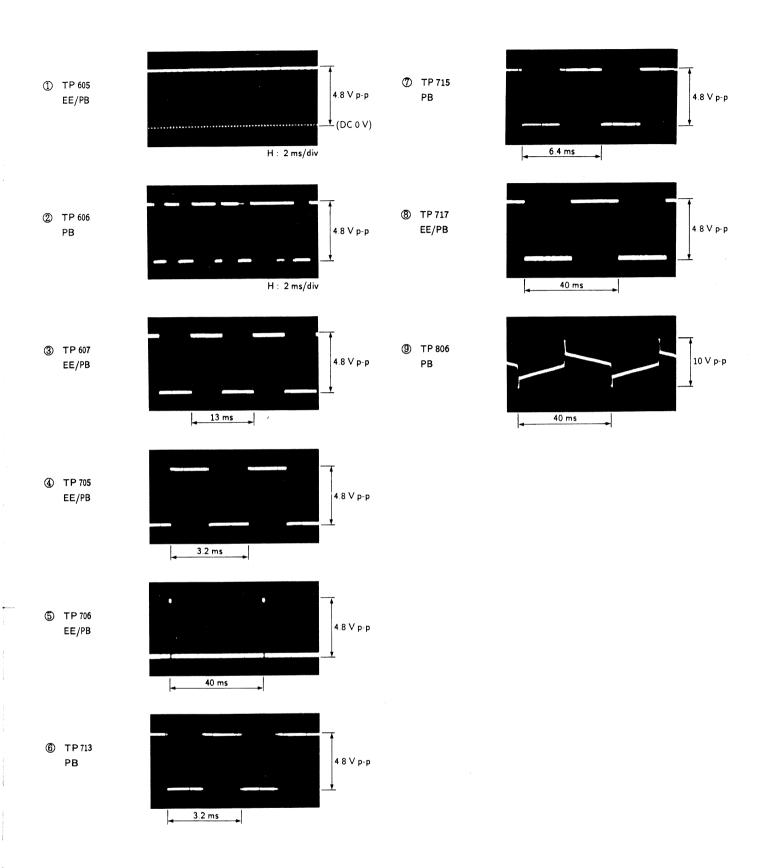




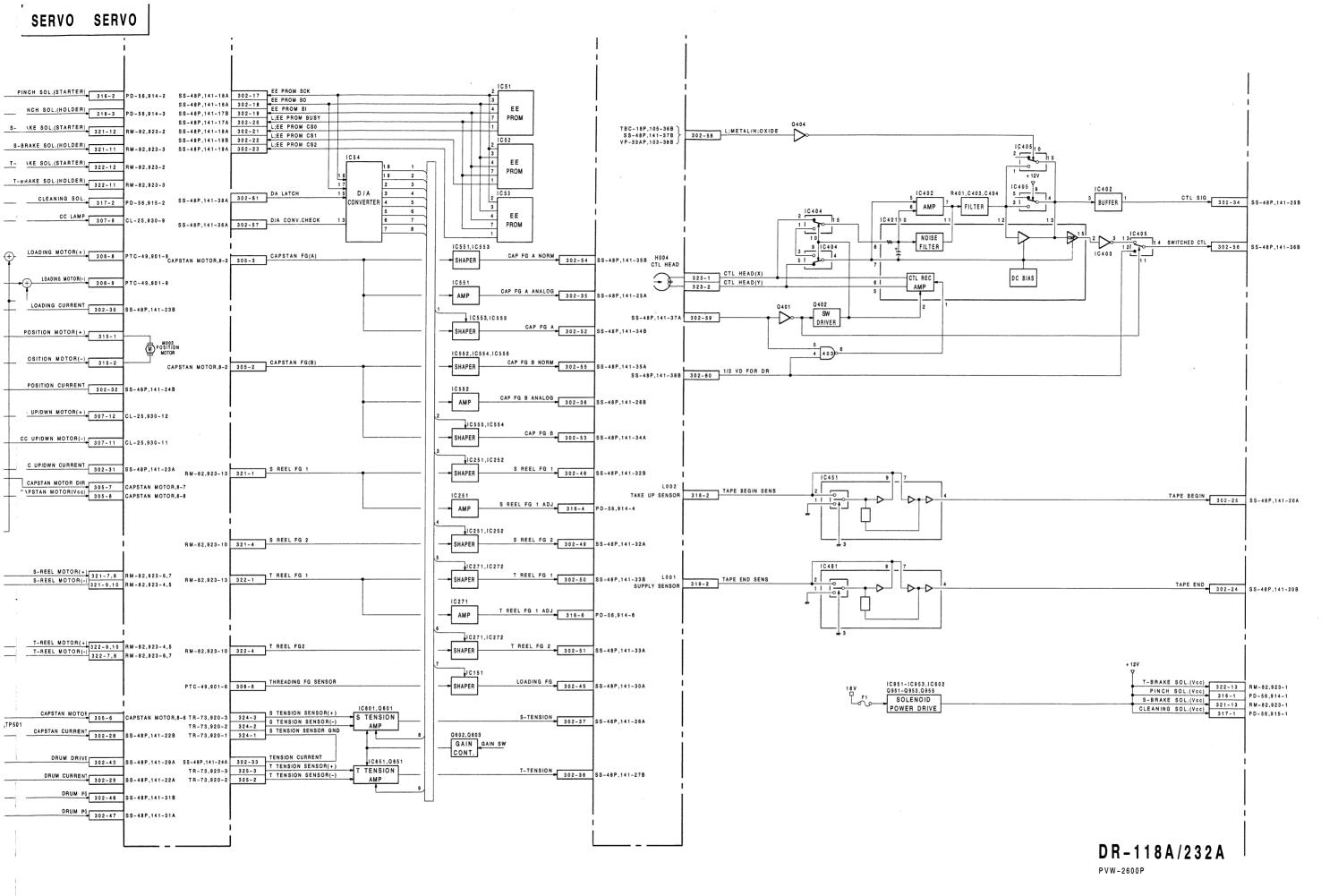
SYSTEM CONTROL(2)







SERVO



4 - 23

14-23

SECTION 15 BOARD LAYOUT

CIRCUIT CONFIGURATION

The circuit information is provided below.

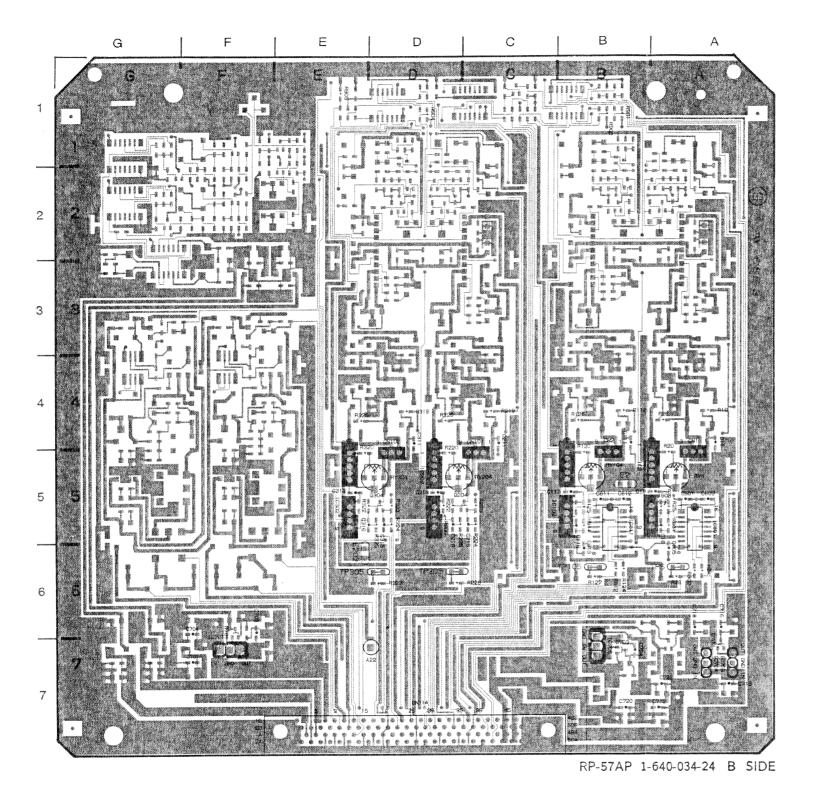
System	Board	Circuit Function
	RP-57AP	RF PB Amplifier
	VP-33AP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET),
		Composite Out Driver
VIDEO	DO - 29	Drop Out Detector
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
	VR-117A	Tracking Control
	AU-148AP	CH-1 PB Process, Dolby System
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
AUDIO	CP-167A	Output Connector, Line Out Driver
	DP-138A	Audio Level Meter Back Light
	VR-116A	PB Level Control, Headphone Volume Control
	MA-44A	Meter Driver, Headphone Amplifier
SS-48P	SS-48P	System Control, Servo System Main, Time Code Reader, Character
		Generator
	KY-210A	Keyboard
	DP-139A	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG
		Amplifier, CTL PB, Adjust Data Storage
	DR-232A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG
		Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor,
	02.20	LP-57 Connection Cassette Loading Motor)
DE-15	DE-15	Reel FG
SERVO/	DS-31	Condensation Sensor
SYSTEM	HC-14C	Sub-control Panel
CONTROL/	PC-62	Cassette In/Large Cassette Sensor
TIME CODE	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
THVIL CODE	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter,
	1 10 00	Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC/9P Remote Connector
	* SE-186	Reel FG
	SW-444A	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
-	AC-133	AC Line Filter, Fuse
	DP-159A	RF/Video Meter Back Light
OTHERS	LP-57	Cassette Illumination
	MB-322A/322D	Mother Board
	SOPS1019A	Switching Regulator
	SOPS1019A SOPS1019B	Switching Regulator
		Switching Regulator
*	SOPS1019C	Switching negulator

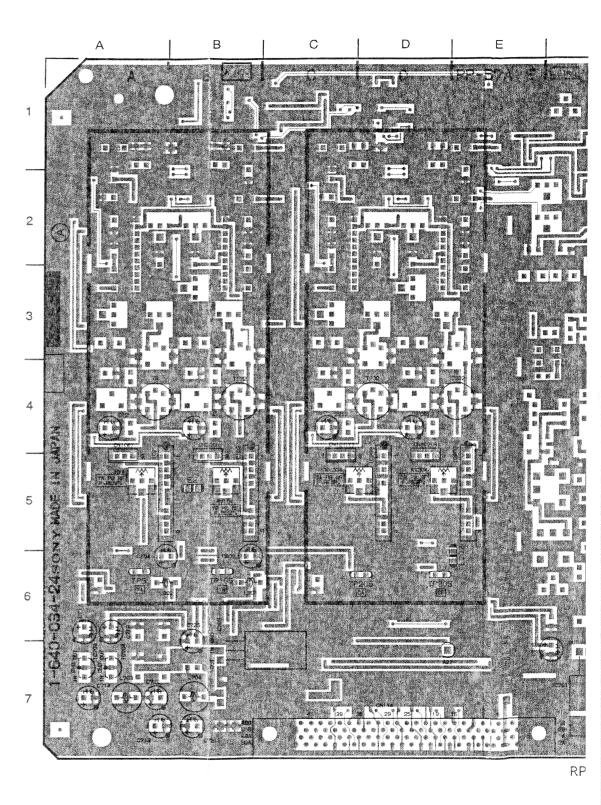
^{*}SE-186 Board: As to serial No. (EK) 15836 and higher, (uc) 10011 and higher the board has been changed from DE-15 to SE-186.

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	VR-117A	

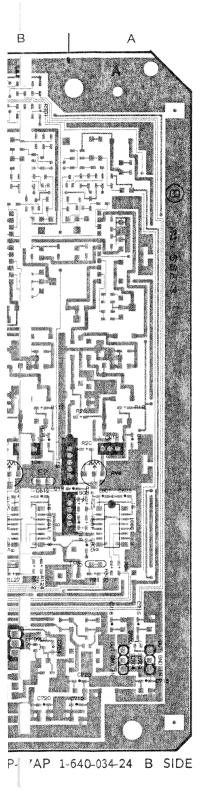
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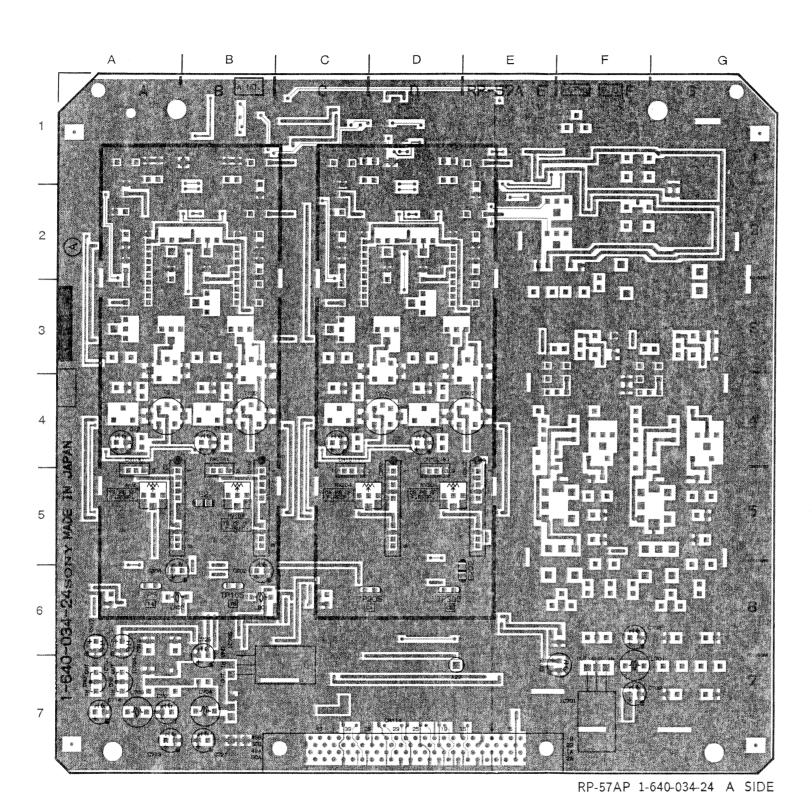
RP-57AP; RM PB AMPLIFIER





RP-57AP

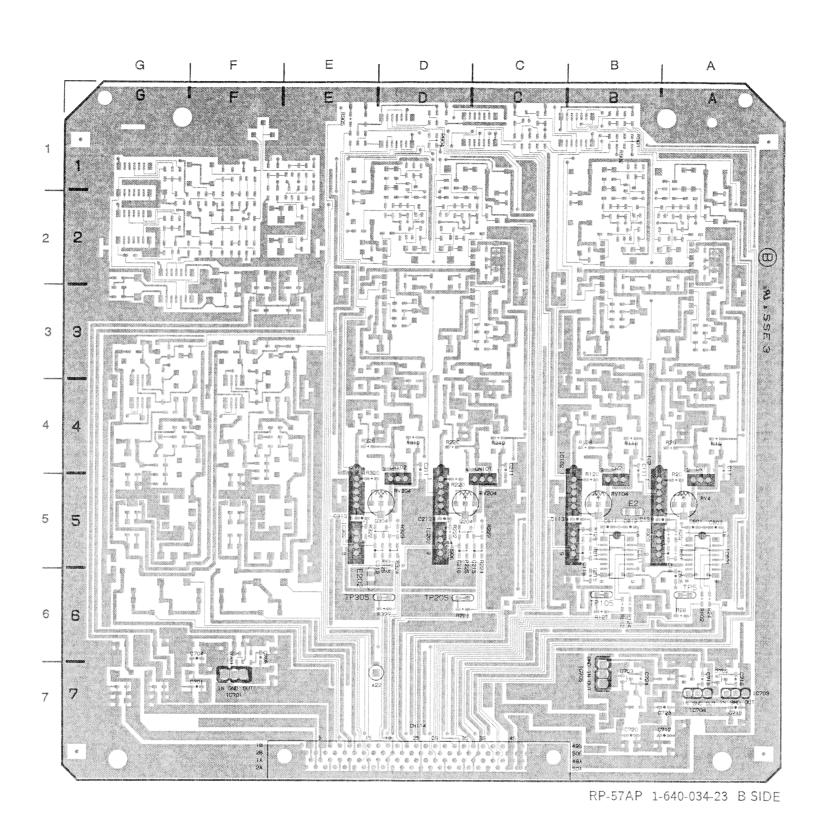


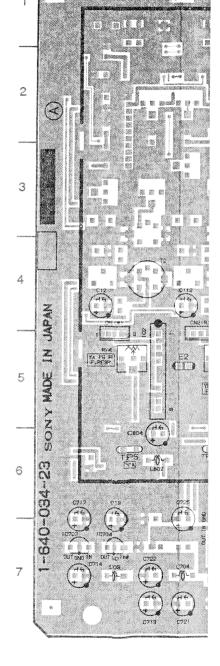


CN 1	A - 5
CN 2	B - 5
CN 101	C - 5
CN 102	D - 5
CN 114	D - 7
* D 701	F - 6
* D 702	A - 7
* D 703	B - 7
E 2	B - 5
E 202	E - 6
IC 2 IC 102 IC 202 IC 302 IC 701 IC 703 IC 704 IC 705 * IC 801 * IC 811	A - 5 B - 5 E - 7 A - 7 A - 7 B - 5 B - 5
L 701	F - 7
L 703	A - 7
L 704	B - 7
L 801	B - 6
L 802	A - 6
* Q 204	C - 5
* Q 304	D - 5
RV 4	A – 5
RV 104	B – 5
RV 204	D – 5
RV 304	D – 5
TP 5	A - 6
TP 105	B - 6
TP 205	D - 6
TP 305	D - 6
T 2	A – 4
T 102	B – 4
T 302	E – 4
*: B SIDE	

RP-57P; RF PB AMPLIFIER

CN 1	A - 5
CN 2	B - 5
CN 101	C - 5
CN 102	D - 5
CN 114	D - 7
* D 701	F – 6
* D 702	A – 7
* D 703	B – 7
E 2	B-5
E 202	E-6
IC 2 IC 102 IC 202 IC 302 IC 701 IC 703 IC 704 IC 705 * IC 801 * IC 811	A - 5 B - 5 D - 5 E - 5 F - 7 A - 7 A - 7 B - 5 B - 5
L 701	F-7
L 703	A-7
L 704	B-7
L 801	B-6
L 802	A-6
* Q 204	C – 5
* Q 304	D – 5
RV 4	A – 5
RV 104	B – 5
RV 204	D – 5
RV 304	D – 5
TP 5	A - 6
TP 105	B - 6
TP 205	D - 6
TP 305	D - 6
T 2	A – 4
T 102	B – 4
T 202	D – 4
T 302	E – 4
*: B SIDE	

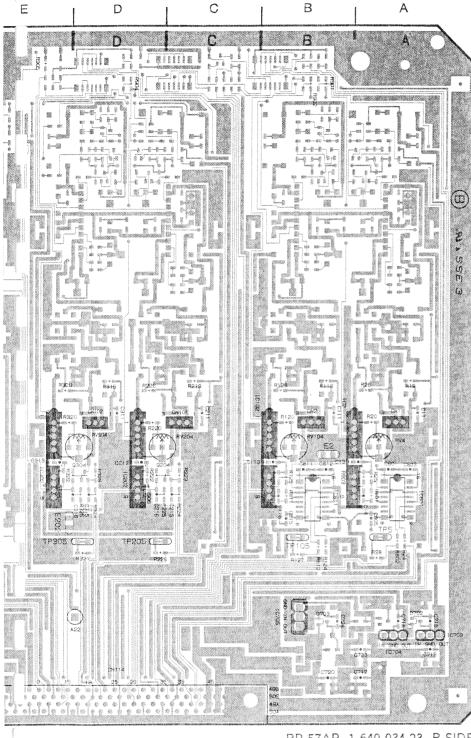




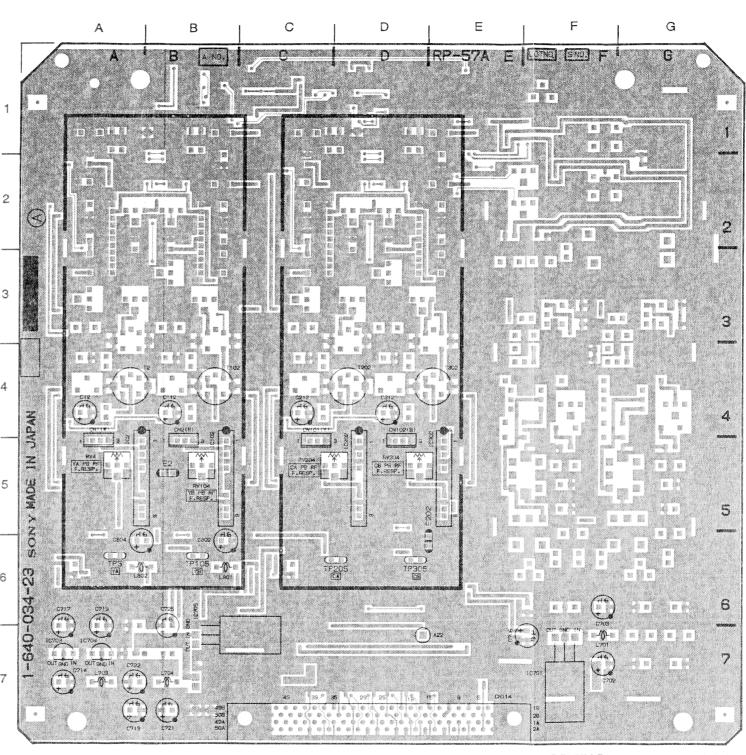
15-2(b)

RF 57AP

5-2(b)



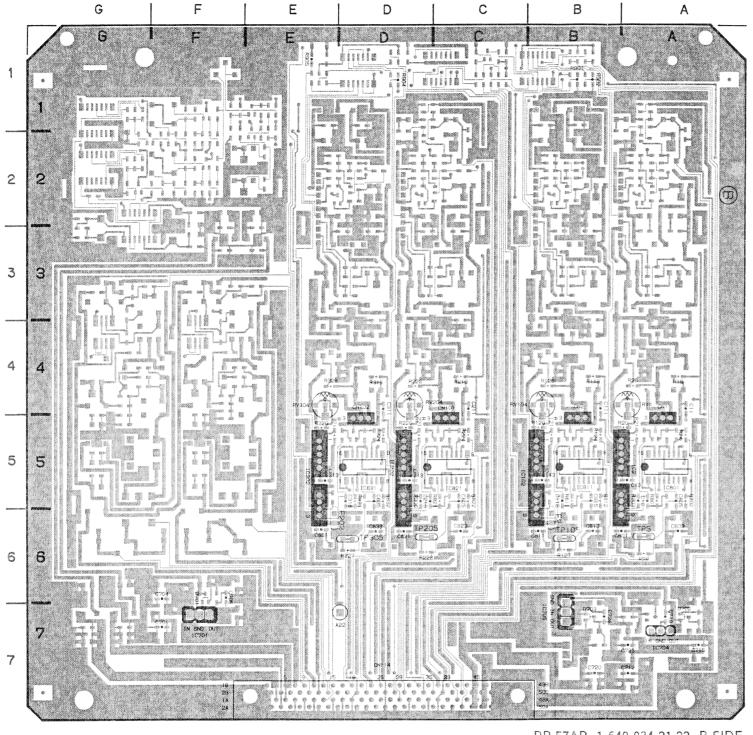
RP-57AP 1-640-034-23 B SIDE

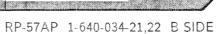


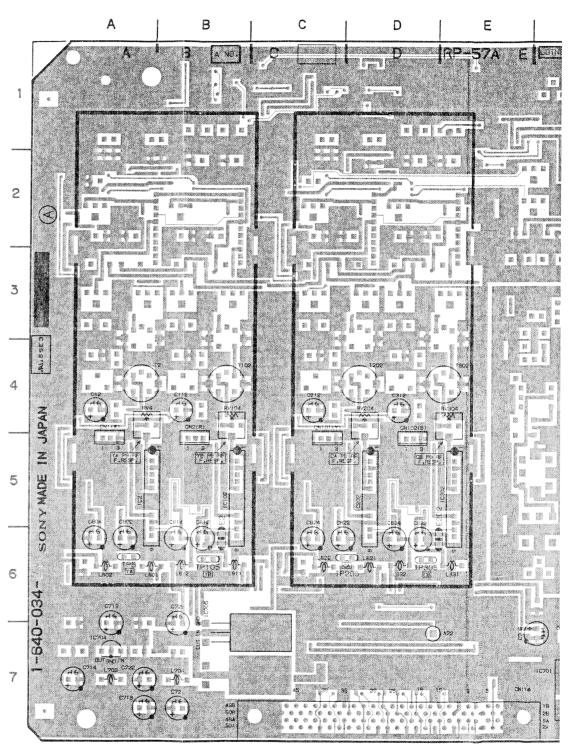
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Serial No.(EK); 10001 to 10650

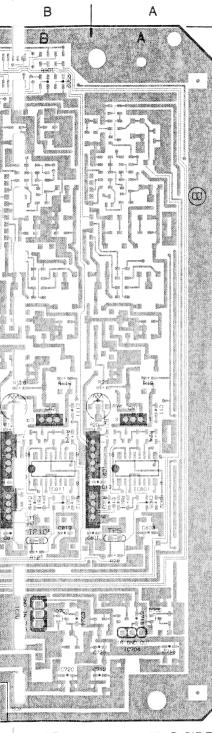
RP-57AP; RF PB AMPLIFIER

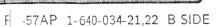


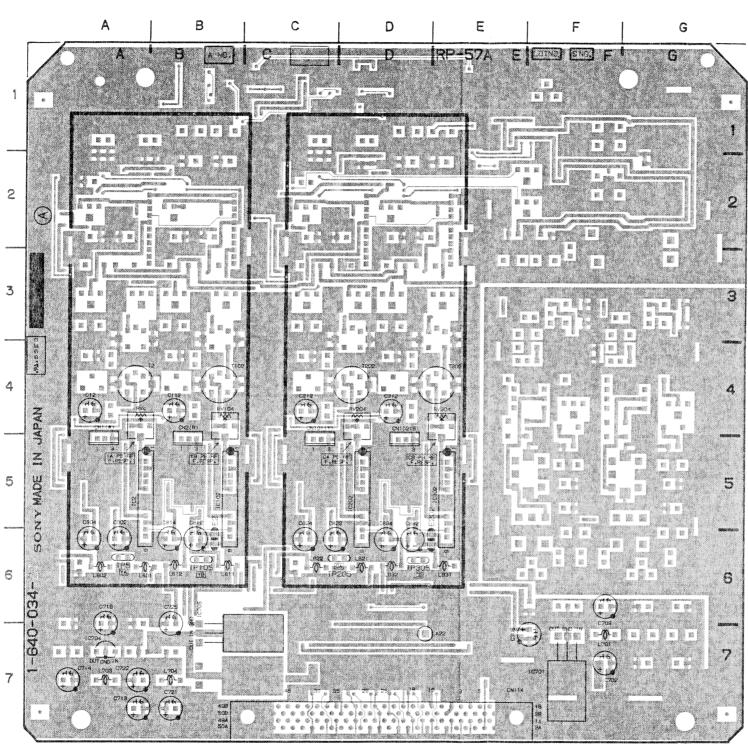




RP-57AP







RP-57AP 1-640-034-21,22 A SIDE

CN 1 CN 2 CN 101 CN 102 CN 114	A- B- D- D-
* D 701	F-
* D 702	A-
* D 703	B-
E 2	B-
E 202	E-
IC 2	B-
IC 102	C-
IC 202	D-
IC 302	E-
IC 701	F-
IC 703	A-
IC 704	A-
IC 705	B-
L 701	F-
L 703	A-
L 704	B-
* Q 4	A-
* Q 104	B-
* Q 204	C-
* Q 304	D-
RV 4	B-
RV 104	C-
RV 204	D-
RV 304	E-
TP 5 TP 105 TP 205 TP 305	A-B-D-E-
T 2	B-
T 102	B-
T 202	D-
T 302	E-
*: B SIDE	

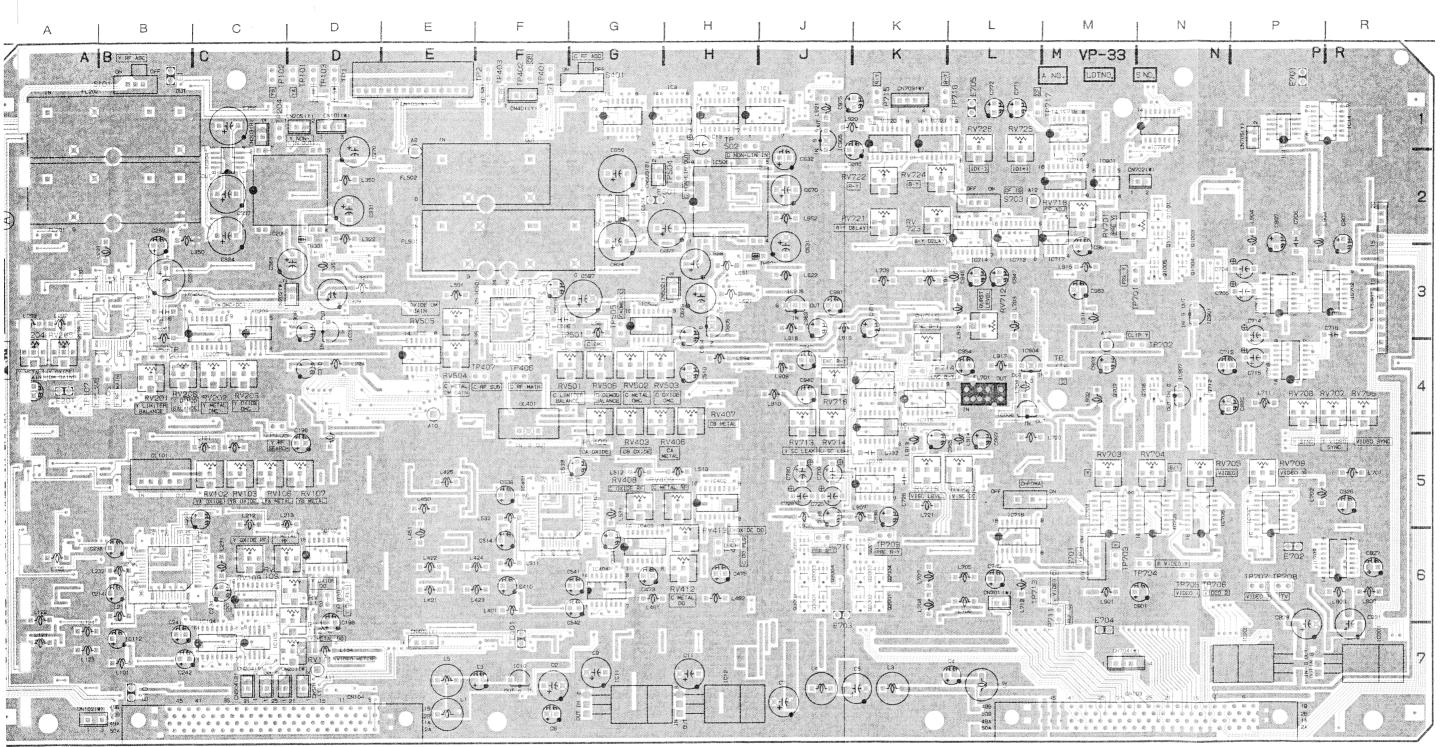
* : B SIDE

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1	1-640-032-14)												
CN 101 CN 102 CN 103 CN 103 CN 103 CN 201 CN 202 CN 203 CN 204 CN 205 CN 401 CN 501 CN 502 CN 503 CN 504 CN 701 CN 702 CN 703 CN 704 CN 705 CN 801 DL 101	D-1 A-7 N-7 C-7 C-7 D-3 C-1 C-7 D-1 E-7 D-7 H-3 G-2 C-7 L-6 N-2 K-1 M-7 P-1 R-3	IC 204 IC 205 IC 206 IC 401 IC 402 IC 403 IC 404 IC 501 IC 502 IC 506 IC 701 IC 702 IC 703 IC 704 IC 705 IC 706 IC 707 IC 708 IC 711 IC 711 IC 712	2 3 2 5 5 6 6 3 4 2 2 3 3 6 6 6 6 4 5 5 5 4 2 2 3 3 6 6 6 6 4 5 5 5 4 5 5 5 4	L 351 L 352 L 401 L 421 L 422 L 423 L 424 L 425 L 450 L 451 L 461 L 462 L 511 L 512 L 513 L 532 L 531 L 532 L 591 L 594 L 621 L 622 L 651	~ ? ? 6 6 6 6 5 5 6 6 6 6 5 5 5 5 7 7 3 4 7 7 7 DDF EEE F F EEE EG H F G H G F G EH H J H	*Q 151 *Q 161 *Q 163 *Q 164 *Q 165 *Q 167 *Q 168 *Q 181 *Q 183 *Q 184 *Q 188 *Q 188 *Q 188 *Q 188 *Q 189 *Q 190 *Q 191 *Q 192 *Q 194	5 5 5 5 5 5 5 5 4 5 5 4 5 5 4 5 5 4 5 5 6 5 6	*Q 462 *Q 463 *Q 465 *Q 466 *Q 466 *Q 466 *Q 468 *Q 501 *Q 5513 *Q 5513 *Q 5514 *Q 5552 *Q 5561 *Q 5562 *Q 5563 *Q 5566 *Q 5566 *Q 5570	4 5 5 5 5 5 5 7 4 3 5 5 6 7 5 5 3 3 3 3 3 3 4 E E F F F F G E E G H G G G G G G G G G F F	*Q 743 *Q 746 *Q 747 *Q 748 *Q 749 *Q 750 *Q 751 *Q 752 *Q 753 *Q 755 *Q 756 *Q 757 *Q 758 *Q 760 *Q 761 *Q 762 *Q 763 *Q 766	L-5 L-6 L-6 K-7 K-3 K-3 K-2 K-2 K-2 K-1 L-1 L-1 L-2	RV 504 RV 505 RV 506 RV 701 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 709 RV 712 RV 713 RV 714 RV 715 RV 716 RV 716 RV 718 RV 719 RV 720 RV 721 RV 722 RV 723 RV 724	E-4 G-4 M-5 N-5 N-5 N-5 N-4 P-3 J-4 K-5 K-5 K-2 K-2 K-2
DL 401	F-4	IC 713 IC 714	L-3 L-3	L 652 L 701	J-2 R-5	*Q 201 *Q 204	C-7 A-4	*Q 591 *Q 592	F-3 E-3	*Q 768 *Q 770	N-1 K-2	RV 725 RV 726	L-1 L-1
*D 1 *D 201 *D 501 *D 502 *D 701 *D 702	G-7 B-2 F-3 H-2 P-3 N-4	IC 715 IC 716 IC 717 IC 718 IC 719 IC 720	K-4 L-6 M-3 M-2 M-1 K-2	L 702 L 703 L 704 L 705 L 706 L 707	P-5 L-3 L-4 L-6 L-6 K-6	*Q 205 *Q 211 *Q 212 *Q 213 *Q 214 *Q 215	A-4 C-5 C-6 D-6 C-6	*Q 621 *Q 622 *Q 623 *Q 624 *Q 625 *Q 627	E-3 G-2 H-2 H-2 H-2	*Q 771 *Q 772 *Q 773 Q 1001 Q 1002 Q 1003 Q 1004	K-2 L-2 K-2 N-2 N-2	S 101 S 401 S 701 S 702 S 703	B-1 G-1 M-6 L-5 L-2
*D 703 *D 704 *D 705	L-2 L-2 N-3	IC 721 IC 722 IC 801	K-2 N-1 M-2	L 708 L 709 L 710	K-6 K-3 K-3	*Q 241 *Q 250 *Q 252	C-7 B-6 C-5	*Q 627 *Q 628 *Q 629	H-2 H-2 H-2	Q 1005 Q 2001	N-3 N-3 K-6	TH 301 TH 601	D-2 H-3
*D 706 *D 707 *D 708	L-4 P-6 K-4	IC 901 IC 902 IC 903	N-3 P-7 P-7	L 711 L 712 L 720	P-4 L-6 L-5	*Q 261 *Q 262 *Q 263	B-3 C-3 C-3	*Q 651 *Q 652 *Q 701	E-3 G-2 N-2	Q 2002 Q 2003 Q 2004	K-6 K-6 K-6	TP 1 TP 2	D-1 F-1
*D 709 E 1 E 501 E 702 E 703 E 705	K-4 B-1 G-2 P-6 J-6 L-1	IC 904 IC 905 IC 906 IC 907 IC 908	L-4 J-1 J-3 N-4 L-4	L 721 L 901 L 902 L 903 L 904 L 905 L 906	K-5 M-6 M-4 P-2 P-2 R-6 R-6	*Q 264 *Q 265 *Q 266 *Q 267 *Q 268 *Q 269 *Q 270	C-3 C-3 C-3 C-3 C-3 C-3 B-3	*Q 702 *Q 703 *Q 704 *Q 705 *Q 706 Q 707 Q 708	N-3 M-3 M-3 N-3 N-4 M-4 N-4	Q 2005 Q 3001 Q 3002 Q 3003 Q 3004 Q 3005	K-6 J-6 J-6 J-6 J-6	TP 101 TP 102 TP 103 TP 105 TP 106 TP 107 TP 108	D-1 C-1 D-1 C-4 B-4 A-4 D-6
FL 201 FL 202 FL 501 FL 502 FL 701	B-2 B-1 F-2 F-2 L-4	L 2 L 3 L 4 L 5 L 101 L 121 L 122	L-7 K-7 J-7 E-7 B-7 A-7 A-6	L 907 L 908 L 909 L 910 L 911 L 912 L 913	K-5 J-5 J-4 J-4 L-3 L-3 K-5	*Q 291 *Q 292 *Q 293 *Q 294 *Q 301 *Q 321 *Q 322	B-3 A-3 A-3 C-3 A-3 C-2	*Q 709 *Q 710 *Q 711 Q 712 *Q 713 *Q 714 *Q 715	N-4 N-4 N-4 R-6 R-5 R-6	RV 102 RV 103 RV 106 RV 107 RV 108 RV 109 RV 111	C-5 C-5 C-5 D-5 C-6 C-6 D-7	TP 201 TP 204 TP 205 TP 401 TP 402 TP 403 TP 406	B-4 C-1 C-3 F-1 F-1 F-4
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 10 IC 11 IC 12 IC 13 IC 14 IC 101 IC 102 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203	H-1 H-1 G-1 E-4 H-1 F-7 G-7 H-7 P-1 R-1 B-6 C-6 C-7 C-7 B-3 B-4 C-4	L 123 L 124 L 125 L 181 L 182 L 183 L 184 L 211 L 212 L 213 L 231 L 232 L 261 L 291 L 292 L 293 L 294 L 321 L 322	A-7 A-7 A-6 C-5 D-7 B-5 C-5 B-3 B-3 B-3 D-4 D-3 D-2	L 913 L 914 L 915 L 916 L 917 L 918 L 919 L 920 L 921 *Q 120 *Q 121 *Q 122 *Q 123 *Q 124 *Q 125 *Q 126 *Q 127 *Q 127 *Q 128	N-5 L-5 M-3 M-3 L-4 J-3 J-1 J-1 P-1 A-7 A-6 A-7 A-6 A-6 A-6 A-6 A-6	*Q 322 *Q 323 *Q 324 *Q 325 *Q 326 *Q 327 *Q 328 *Q 329 *Q 351 *Q 352 *Q 420 *Q 421 *Q 422 *Q 423 *Q 424 *Q 425 *Q 426 *Q 427 *Q 428 *Q 461	0-2-2 0-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	*Q 716 *Q 717 *Q 718 *Q 719 *Q 728 *Q 729 *Q 730 *Q 731 *Q 732 *Q 733 *Q 734 *Q 735 *Q 736 *Q 737 *Q 738 *Q 739 *Q 740 *Q 741 *Q 742	R-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	RV 1112 RV 1113 RV 201 RV 202 RV 203 RV 205 RV 206 RV 402 RV 403 RV 406 RV 407 RV 409 RV 412 RV 413 RV 501 RV 502 RV 503	DDDBCCA444444445566644446HGGGHHHGGGG	TP 407 TP 408 TP 501 TP 504 TP 505 TP 701 TP 703 TP 704 TP 705 TP 706 TP 707 TP 708 TP 713 TP 713 TP 715 TP 716 TP 717	F-4 H-4-2-3-3-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6

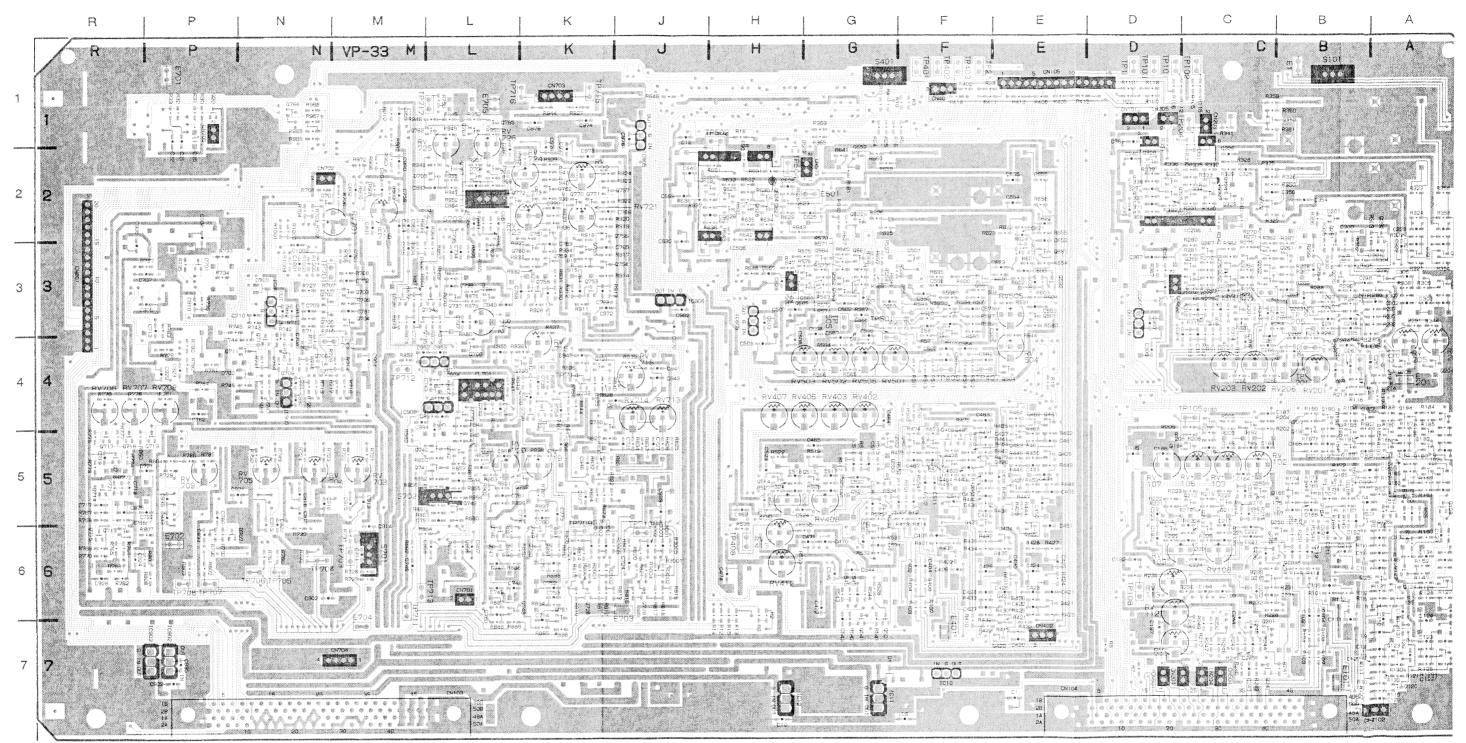


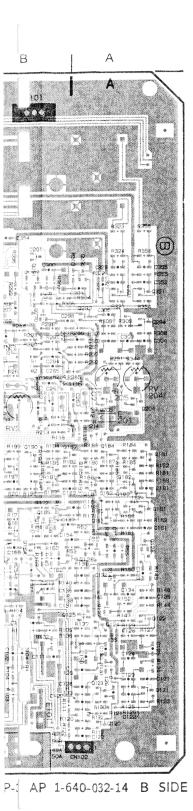
VP-33AP



VP-33AP 1-640-032-14 A SIDE

VP-33AP; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER





Serial No.(EK) ;15256 and higher



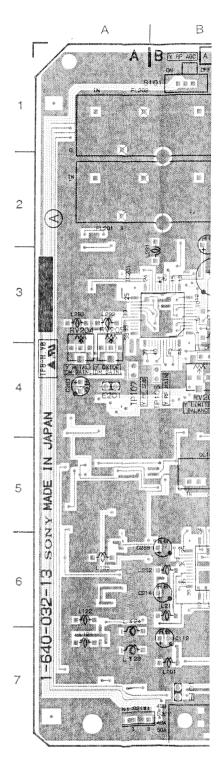
* : B SIDE

DUS-668 1-648-773-11 B SIDE

1 102 A-7 1 102 105 D-3 L 352 D-2 WO 161 A-5 WO 468 F-5 WO 749 L 6 RV 506 G-4 L 101 RV 506 G-4 RV 506 RV	`	1-640-032-14)	10.004	2.0	. 054		0.454		0.100				5) / 5 - /	
C711 K-5 L622 J-3	CN 101 CN 102 CN 103 CN 103 CN 104 CN 201 CN 202 CN 203 CN 204 CN 205 CN 401 CN 502 CN 503 CN 504 CN 701 CN 702 CN 702 CN 703 CN 704 CN 705 CN 801	N-7 C-7 C-7 D-3 C-1 C-7 D-1 E-7 D-3 G-2 C-7 L-6 N-2 K-1 M-7 P-1	IC 206 IC 401 IC 402 IC 403 IC 404 IC 501 IC 502 IC 504 IC 506 IC 605 IC 701 IC 702 IC 703 IC 704 IC 705 IC 707 IC 707 IC 708 IC 710	C-2 F-5 G-6 G-3 G-2 H-3 R-6 N-6 N-6 N-6 P-4	L 401 L 421 L 422 L 423 L 424 L 425 L 450 L 451 L 461 L 512 L 511 L 512 L 513 L 531 L 532 L 531	6 6 6 6 6 5 5 6 6 6 6 5 5 5 5 3 3 4 F E E F E E E E G H F G H G F G E H	*Q 162 *Q 163 *Q 164 *Q 167 *Q 167 *Q 168 *Q 181 *Q 182 *Q 184 *Q 185 *Q 186 *Q 187 *Q 188 *Q 189 *Q 190 *Q 191	A-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	*Q 464 *Q 465 *Q 466 *Q 467 *Q 501 *Q 504 *Q 505 *Q 5513 *Q 5514 *Q 5551 *Q 5552 *Q 5561 *Q 563 *Q 564	F. F. F. F. F. F. G. E. E. G. H. G.	*Q 747 *Q 748 *Q 749 *Q 750 *Q 751 *Q 752 *Q 753 *Q 754 *Q 755 *Q 757 *Q 758 *Q 759 *Q 760 *Q 761 *Q 763 *Q 764	L-6 L-6 K-6 K-7 K-3 K-3 K-3 K-3 K-3 K-3 K-2 L-1	RV 506 RV 701 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 712 RV 713 RV 714 RV 715 RV 716 RV 716 RV 719 RV 720 RV 720	G-4 M-5 N-5 N-5-5 R-4 P-5 L-3 J-4 K-4 M-2 K-5 K-5 K-2
1			IC 712 IC 713	K-4 L-3	L 651 L 652	H-3 J-2	*Q 194 *Q 201	C-5 C-7	*Q 566 *Q 570 *Q 591	F-4 F-3	*Q 767 *Q 768	L-2 N-1	RV 724 RV 725	K-2 L-1
1704 L-2	201 501 502 701 702	B-2 F-3 H-2 P-3 N-4	IC 716 IC 717 IC 718 IC 719 IC 720	L-6 M-3 M-2 M-1 K-2	L 703 L 704 L 705 L 706 L 707	P-5 L-3 L-4 L-6 L-6 K-6	*Q 205 *Q 211 *Q 212 *Q 213 *Q 214 *Q 215	A-4 C-5 C-5 C-6 D-6 C-6	*Q 621 *Q 622 *Q 623 *Q 624 *Q 625 *Q 626	E-3 G-2 H-2 H-2 H-2 H-2	*Q 771 *Q 772 *Q 773 Q 1001 Q 1002 Q 1003	K-2 L-2 K-2 N-2 N-2 N-2	S 101 S 401 S 701 S 702	B-1 G-1 M-6 L-5
D708 K-4 IC 903 P-7 L 720 L-5 **Q 263 C-3 **Q 701 N-2 © 2004 K-6 TP 2 F-1 D709 K-4 IC 904 L-4 L 721 K-5 **Q 264 C-3 **Q 702 N-3 Q 2005 K-6 TP 101 D-1 I B-1 IC 906 J-3 L 902 M-4 **Q 266 C-3 **Q 704 M-3 Q 3002 J-6 TP 103 D-1 E 702 P-6 IC 907 N-4 L 903 P-2 **Q 266 C-3 **Q 706 N-4 Q 3004 J-6 TP 105 C-4 E 702 P-6 IC 908 L-4 L 904 P-2 **Q 268 C-3 **Q 706 N-4 Q 3004 J-6 TP 106 B-4 E 705 L-1 L 1 E-7 L 906 R-6 **Q 297 B-3 Q 708 N-4 R 709 N-4 R 709 N-4 R 709 N-4 R 709 N-4	0 704 0 705 0 706	L-2 N-3 L-4	IC 722 IC 801 IC 901	N-1 M-2 N-3	L 709 L 710 L 711	K-3 K-3 P-4	*Q 250 *Q 252 *Q 261	B-6 C-5 B-3	*Q 628 *Q 629 *Q 651	H-2 H-2 E-3	Q 1005 Q 2001 Q 2002	N-3 K-6 K-6	TH 601	H-3
E1 B-1 IC 906 J-3 L 902 M-4 *Q 266 C-3 *Q 704 M-3 Q 3002 J-6 TP 103 D-1 E501 G-2 IC 907 N-4 L 903 P-2 *Q 267 C-3 *Q 705 N-3 Q 3003 J-6 TP 105 C-4 E703 J-6 L 908 L-4 L 904 P-2 *Q 268 C-3 *Q 706 N-4 Q 3004 J-6 TP 106 B-4 E703 J-6 L 905 R-6 *Q 269 C-3 Q 707 M-4 Q 3005 J-6 TP 107 A-4 E705 L-1 L 1 E-7 L 906 R-6 *Q 269 C-3 Q 707 M-4 Q 3005 J-6 TP 107 A-4 E705 L-1 L 1 E-7 L 907 K-5 *Q 291 B-3 *Q 709 N-4 RV 102 C-5 TP 201 B-4 E707 L 2 L-7 L 907 K-5 *Q 291 B-3 *Q 709 N-4 RV 103 C-5 TP 201 B-4 E708 L 2 L 3 K-7 L 908 J-5 *Q 292 A-3 *Q 710 N-4 RV 103 C-5 TP 204 C-1 E709 L 2 L 5 E-7 L 910 J-4 *Q 293 A-3 *Q 711 N-4 RV 106 C-5 TP 205 C-3 E709 L 2 L 5 E-7 L 910 J-4 *Q 294 A-3 Q 712 N-4 RV 107 D-5 TP 401 F-1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709 L 1 L 1 L 1 L 1 L 1 L 1 L 1 E709	708	K-4	IC 903 IC 904	P-7 L-4	L 720 L 721	L-5 K-5	*Q 263 *Q 264	C-3 C-3	*Q 701 *Q 702	N-2 N-3	Q 2004 Q 2005	K-6 K-6	TP 2 TP 101	F-1 D-1
EL 201 B-2 L 3 K-7 L 908 J-5 *Q 292 A-3 *Q 710 N-4 RV 103 C-5 TP 204 C-1 L 202 B-1 L 4 J-7 L 909 J-4 *Q 293 A-3 *Q 711 N-4 RV 106 C-5 TP 205 C-3 EL 501 F-2 L 5 E-7 L 910 J-4 *Q 294 A-3 Q 712 N-4 RV 107 D-5 TP 401 F-1 F-1 F-1 F-1 F-1 F-1 F-1 F-1 F-1 F-	E 1 E 501 E 702 E 703 E 705	G-2 P-6 J-6	IC 906 IC 907 IC 908 L 1	J-3 N-4 L-4 E-7	L 902 L 903 L 904 L 905 L 906	M-4 P-2 P-2 R-6 R-6	*Q 266 *Q 267 *Q 268 *Q 269 *Q 270	C-3 C-3 C-3 C-3 B-3	*Q 704 *Q 705 *Q 706 Q 707 Q 708	M-3 N-3 N-4 M-4 N-4	Q 3002 Q 3003 Q 3004 Q 3005	J-6 J-6 J-6	TP 103 TP 105 TP 106 TP 107 TP 108	D-1 C-4 B-4 A-4 D-6
C1 H-1 L 123 A-7 L 914 L-5 *Q 323 C-2 *Q 716 R-5 RV 112 D-6 TP 407 F-4 C 2 H-1 L 124 A-7 L 915 M-3 *Q 324 C-2 *Q 717 R-5 RV 113 D-6 TP 408 H-6 C 3 G-1 L 125 A-6 L 916 M-3 *Q 325 D-2 *Q 718 R-5 RV 201 B-4 TP 501 G-4 C 4 G-1 L 181 C-5 L 917 L-4 *Q 326 D-2 *Q 719 P-5 RV 202 C-4 TP 504 H-2 C 5 E-4 L 182 C-5 L 918 J-3 *Q 327 C-2 *Q 728 K-6 RV 203 C-4 TP 505 G-3 C 6 H-1 L 183 D-5 L 919 J-3 *Q 328 C-2 *Q 729 J-6 RV 204 A-4 TP 701 M-3 C 10 F-7 L 184 D-7 L 920 J-1 *Q 329 D-2 *Q 730 K-4 RV 205 A-4 TP 703 M-6 C 11 G-7 L 211 B-6 L 921 J-1 *Q 351 A-3 *Q 731 K-4 RV 206 B-4 TP 704 N-6 C 12 H-7 L 212 C-5 *Q 725 C-1 *Q 732 K-4 RV 402 G-4 TP 705 N-6 C 13 P-1 L 213 C-5 *Q 20 P-1 *Q 420 E-7 *Q 733 K-4 RV 403 G-4 TP 706 N-6 C 14 R-1 L 231 C-6 *Q 120 A-7 *Q 421 E-6 *Q 735 M-3 RV 407 H-4 TP 708 P-6	L 202 L 501 L 502	B-1 F-2 F-2	L 3 L 4 L 5 L 101 L 121	K-7 J-7 E-7 B-7 A-7	L 908 L 909 L 910 L 911 L 912	J-5 J-4 J-4 L-3 L-3	*Q 292 *Q 293 *Q 294 *Q 301 *Q 321	A-3 A-3 A-3 C-3 A-3	*Q 710 *Q 711 Q 712 *Q 713 *Q 714	N-4 N-4 N-4 R-6 R-5	RV 103 RV 106 RV 107 RV 108 RV 109	C-5 C-5 D-5 C-6 C-6	TP 204 TP 205 TP 401 TP 402 TP 403	C-1 C-3 F-1 F-1
C 103 C-6 L 291 B-3 *Q 123 A-7 *Q 424 E-6 *Q 737 L-3 RV 409 H-5 TP 713 M-6	C 2 C 3 C 4 C 5 C 6 C 10 C 11 C 12 C 13 C 14 C 101 C 102	H-1 G-1 G-1 E-4 H-1 F-7 G-7 H-7 P-1 R-1 B-6 D-6	L 123 L 124 L 125 L 181 L 182 L 183 L 184 L 211 L 212 L 213 L 231 L 232 L 261	A-7 A-6 C-5 D-7 B-6 C-5 C-5 C-6 B-3	L 914 L 915 L 916 L 917 L 918 L 919 L 920 L 921 *Q 20 *Q 120 *Q 121 *Q 122	L-5 M-3 M-3 L-4 J-3 J-1 J-1 P-1 A-7 A-6	*Q 323 *Q 324 *Q 325 *Q 326 *Q 327 *Q 328 *Q 329 *Q 351 *Q 352 *Q 421 *Q 421 *Q 422 *Q 423	C-2 C-2 D-2 C-2 C-2 D-2 A-3 C-1 E-7 E-6 E-6	*Q 716 *Q 717 *Q 718 *Q 719 *Q 728 *Q 729 *Q 730 *Q 731 *Q 732 *Q 733 *Q 734 *Q 735 *Q 736	R-5 R-5 R-5 P-6 J-6 K-4 K-4 K-4 K-4 M-3 M-3	RV 112 RV 113 RV 201 RV 202 RV 203 RV 204 RV 205 RV 406 RV 402 RV 406 RV 407 RV 408	D-6 D-6 B-4 C-4 C-4 A-4 A-4 B-4 G-4 G-4 H-4	TP 407 TP 408 TP 501 TP 504 TP 505 TP 701 TP 703 TP 704 TP 705 TP 706 TP 707	F-4 H-6 G-4 H-2 G-3 M-6 N-6 N-6 N-6 P-6

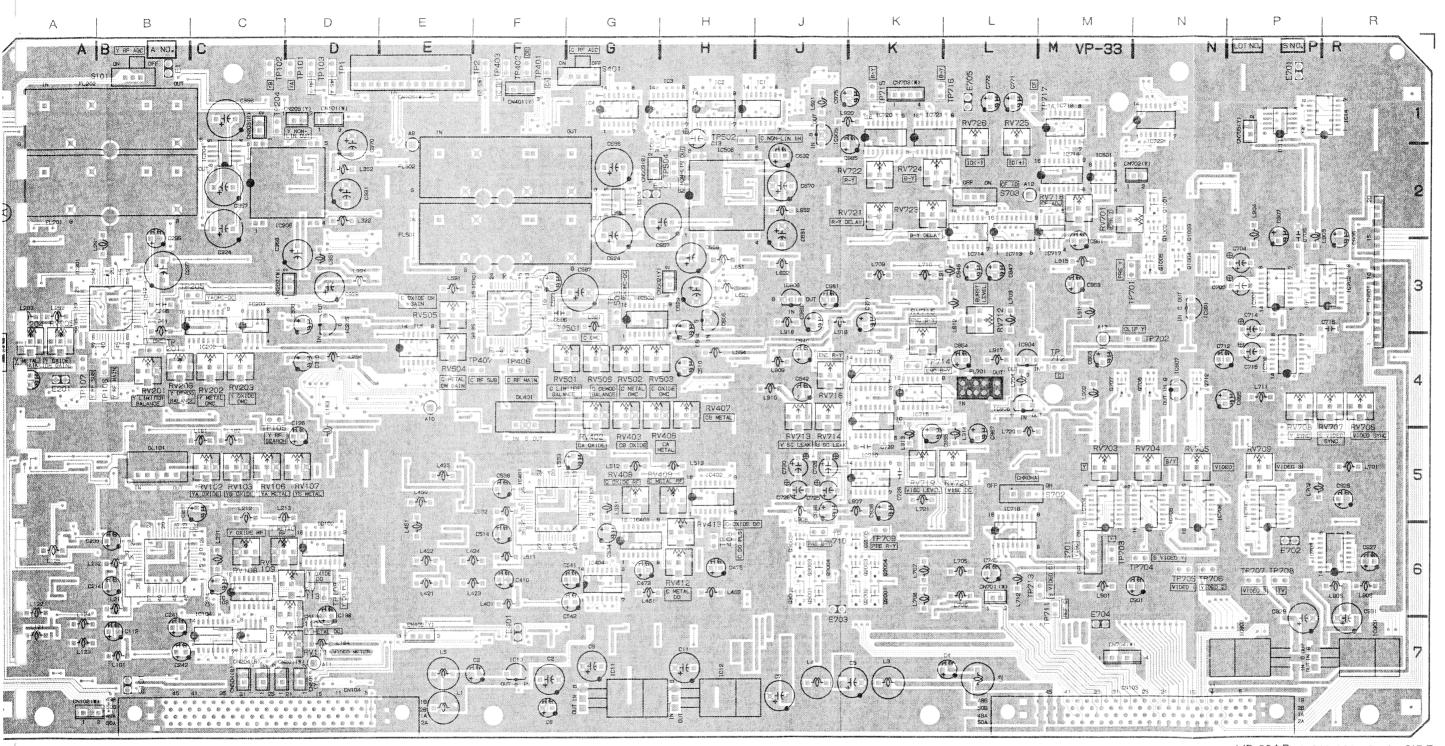
VP-33AP; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

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DL 101 DL 401	B-5 F-4	IC 708 IC 710 IC 711	P-4 K-5 K-5	L 621 L 622 L 651	H-3 J-3 H-3	*Q 194 *Q 201 *Q 204	C-5 C-7 A-4	*Q 592 *Q 621 *Q 622	E-3 E-3 G-2	*Q 770 *Q 771 *Q 772	K-2 K-2 L-2	RV 726 S 101	L-1 B-1
*D 1 *D 201 *D 501 *D 502	G-7 B-2 F-3 H-2	IC 712 IC 713 IC 714 IC 715	K-4 L-3 L-3 K-4	L 652 L 701 L 702 L 703	J-2 R-5 P-5 L-3	*Q 205 *Q 211 *Q 212 *Q 213	A-4 C-5 C-5 C-6	*Q 623 *Q 624 *Q 625 *Q 626	H-2 H-2 H-2 H-2	*Q 773 Q 1001 Q 1002 Q 1003	K-2 N-2 N-2 N-2	S 401 S 701 S 702 S 703	G-1 M-6 L-5 L-2
*D 701 *D 702 *D 703 *D 704 *D 705 *D 706 *D 707 *D 708 *D 709	P-3 N-4 L-2 L-2 N-3 L-4 P-6 K-4	IC 716 IC 717 IC 718 IC 719 IC 720 IC 721 IC 722 IC 801 IC 902	L-6 M-3 M-2 M-1 K-1 K-1 N-1 M-2 P-7	L 704 L 705 L 706 L 707 L 708 L 709 L 710 L 711 L 712	L-4 L-6 K-6 K-3 K-3 F-4 L-1	*Q 214 *Q 215 *Q 241 *Q 250 *Q 252 *Q 261 *Q 263 *Q 264 *Q 265	D-6 6-7 6-5-3 6-3-3 6-3-3 6-3-3 6-3-3	*Q 627 *Q 628 *Q 629 *Q 651 *Q 652 *Q 701 *Q 702 *Q 703 *Q 704	H-2 H-2 H-2 E-3 G-2 N-2 N-3 M-3	Q 1004 Q 1005 Q 2001 Q 2002 Q 2003 Q 2004 Q 2005 Q 3001 Q 3002	N-3 N-6 K-6 K-6 K-6 K-6 J-6	TP 1 TP 2 TP 101 TP 102 TP 103 TP 105 TP 106 TP 107	D-1 F-1 D-1 C-1 D-1 C-4 B-4 A-4
E 1 E 101 E 201 E 401 E 501 E 701 E 702 E 703 E 704 E 705	B-1 B-7 A-4 F-7 G-2 P-1 P-6 J-6 M-6 L-1	IC 903 IC 904 IC 905 IC 906 IC 907 IC 908 L 1 L 2 L 3 L 4 L 5	R-7 L-4 J-1 J-3 N-4 L-4 E-7 L-7 K-7 J-7 E-7	L 721 L 901 L 902 L 903 L 904 L 905 L 906 L 907 L 908 L 909 L 910 L 911	K-5 M-6 M-4 P-2 R-6 R-5 J-5 J-4 L-3	*Q 266 *Q 267 *Q 267 *Q 270 *Q 291 *Q 292 *Q 293 *Q 294 *Q 301 *Q 321 *Q 322 *Q 323	C-3 C-3 B-3 B-3 A-3 A-3 C-3 A-2 C-2	*Q 705 *Q 706 Q 707 Q 708 *Q 709 *Q 710 *Q 711 Q 712 *Q 713 *Q 715 *Q 715	N-3 N-4 M-4 N-4 N-4 N-4 R-6 R-5 R-5	Q 3003 Q 3004 Q 3005 RV 102 RV 103 RV 106 RV 107 RV 108 RV 109 RV 111 RV 112	J-6 J-6 C-5 C-5 D-5 C-7 C-7 D-6	TP 108 TP 201 TP 201 TP 205 TP 401 TP 402 TP 403 TP 406 TP 407 TP 408 TP 501 TP 502	D-6 B-4 C-1 C-3 F-1 F-1 F-4 F-4 H-6 G-4 H-1
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IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 10 IC 11 IC 12 IC 101 IC 102 IC 103 IC 104	H-1 H-1 G-1 E-4 H-1 F-7 G-7 H-7 B-6 D-6 C-6	L 125 L 181 L 182 L 183 L 184 L 211 L 212 L 213 L 231 L 232 L 261 L 291 L 292 L 293	A-6 C-5 D-7 B-5 C-5 C-6 B-3 B-3 A-3	L 917 L 918 L 919 L 920 L 921 *Q 120 *Q 121 *Q 122 *Q 123 *Q 124 *Q 125 *Q 126 *Q 127	L-4 J-3 J-1 J-1 A-7 A-6 A-7 A-6 A-6 A-5 A-6	*Q 329 *Q 351 *Q 352 *Q 420 *Q 421 *Q 422 *Q 423 *Q 424 *Q 425 *Q 426 *Q 427 *Q 428 *Q 461 *Q 462	D-2 A-3 C-17 E-6 E-6 E-6 F-5 E-5 E-4 E-4	*Q 730 *Q 731 *Q 731 *Q 733 *Q 734 *Q 735 *Q 736 *Q 737 *Q 738 *Q 739 *Q 740 *Q 741 *Q 742 *Q 743	K-4 K-4 K-4 L-3 M-3 L-3 L-3 L-5 L-5 L-5	RV 205 RV 206 RV 403 RV 406 RV 407 RV 408 RV 409 RV 413 RV 501 RV 502 RV 503 RV 504	A-4 B-4 G-4 H-4 H-5 H-6 H-6 G-4 E-4	TP 704 TP 705 TP 706 TP 707 TP 708 TP 709 TP 710 TP 711 TP 712 TP 713 TP 714 TP 715 TP 716 TP 717	N-6 N-6 P-6 F-6 K-6 M-6 M-4 M-6 K-1 K-1
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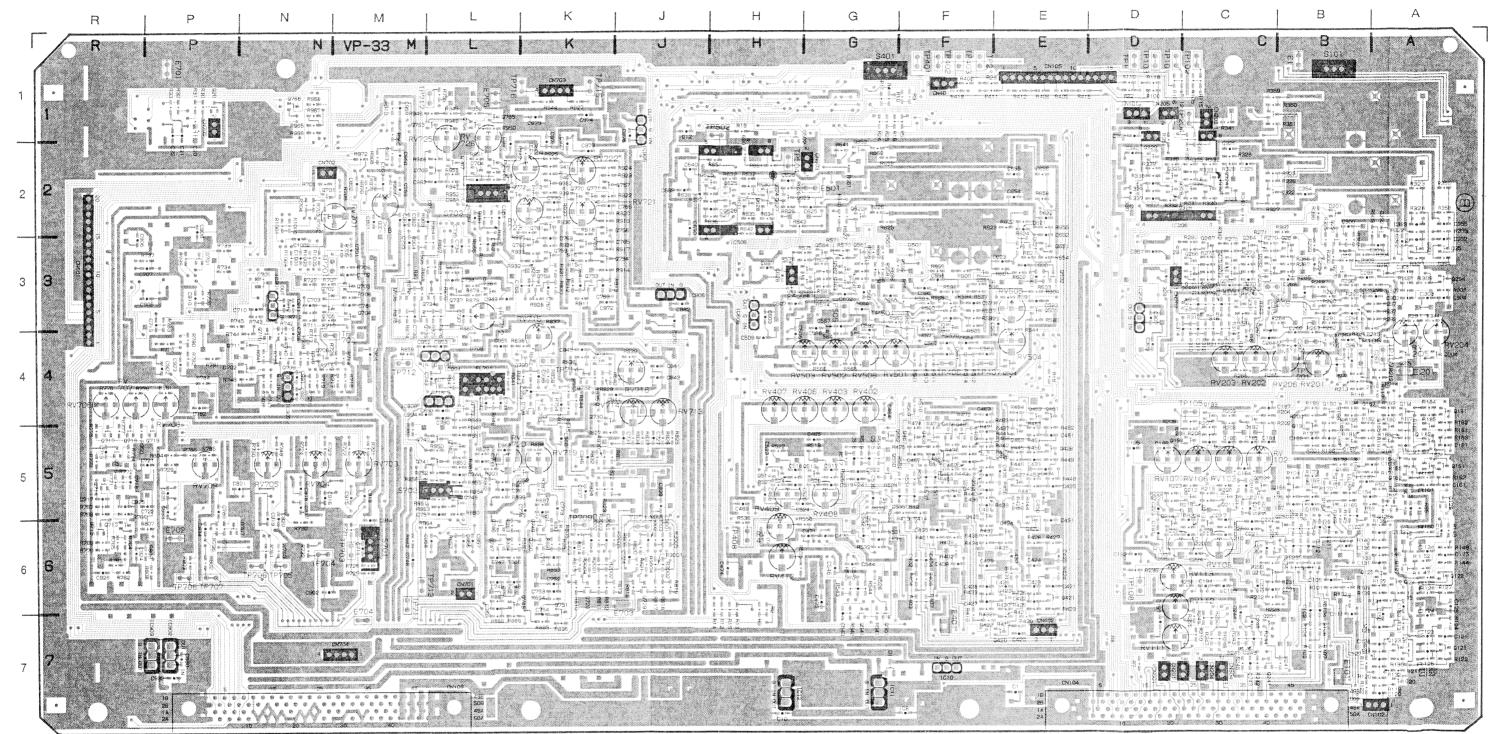
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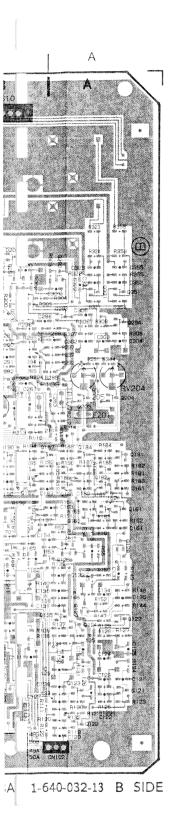
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VP-33AP; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER



VP-33AP 1-640-03213 B SIDE

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IC 105 IC 201 IC 202 IC 203 IC 206 IC 206 IC 401 IC 402 IC 506 IC 506 IC 506 IC 707 IC 708 IC 707 IC 708 IC 711 IC 712 IC 715 IC 716 IC 717 IC 718 IC 717 IC 718 IC 717 IC 718 IC 719 IC 720 IC 701 IC 702 IC 703 IC 704 IC 705 IC 706 IC 707 IC 708 IC 710 IC 711 IC 712 IC 713 IC 714 IC 715 IC 716 IC 717 IC 718 IC 719 IC 720 IC 721 IC 720 IC 721 IC 720 IC 721 IC 720 IC 720 IC 721 IC 720 IC C734432323255666333222333365555545543334663221111127774413344 B-1 B-7 A-4 F-7 G-2 P-1 P-6 J-6 M-6 E 401 E 501 E 701 E 702 E 703 E 704 E 705 E-7 L-7 K-7 J-7 E-7 E-7 A-6 A-6 C-5 D-7 B-6 C-6 B-3 B-3 A-3 L 2 L 3 L 4 L 5 FL 201 FL 202 FL 501 FL 502 FL 701 L 101 L 121 L 122 L 123 L 124 L 125 L 181 L 182 B-2 B-1 F-2 F-2 L-4 IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 10 IC 11 IC 12 IC 101 IC 102 IC 103 IC 104 H-1 H-1 G-1 E-4 H-1 F-7 G-7 H-7 B-6 D-6 C-6 C-7 L 183 L 184 L 211 L 212 L 212 L 213 L 231 L 232 L 261 L 291 L 292 L 293

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RV 406 RV 407 RV 408 RV 409 RV 412 RV 413 RV 501 RV 502 RV 503 RV 504	Q 2001 Q 2002 Q 2003 Q 2004 Q 2005 Q 3001 Q 3002 Q 3003 Q 3004 Q 3005 RV 102 RV 103 RV 106 RV 107 RV 108 RV 109 RV 111 RV 112 RV 113 RV 201 RV 202 RV 203 RV 204 RV 205 RV 206 RV 402 RV 403	*Q 771 *Q 772 *Q 773 Q 1001 Q 1002 Q 1003 Q 1004 Q 1005	*Q 746 *Q 747 *Q 748 *Q 749 *Q 750 *Q 751 *Q 752 *Q 753 *Q 754 *Q 755 *Q 756 *Q 757 *Q 758 *Q 760 *Q 761 *Q 762 *Q 763 *Q 766 *Q 766 *Q 766 *Q 766 *Q 766 *Q 766 *Q 767 *Q 768 *Q 770	
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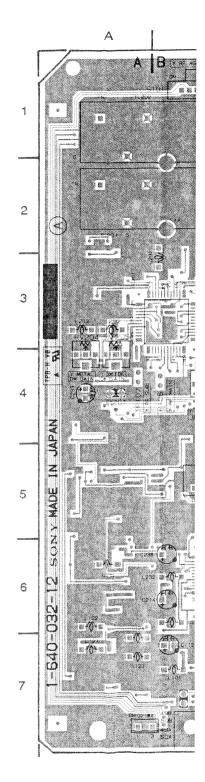
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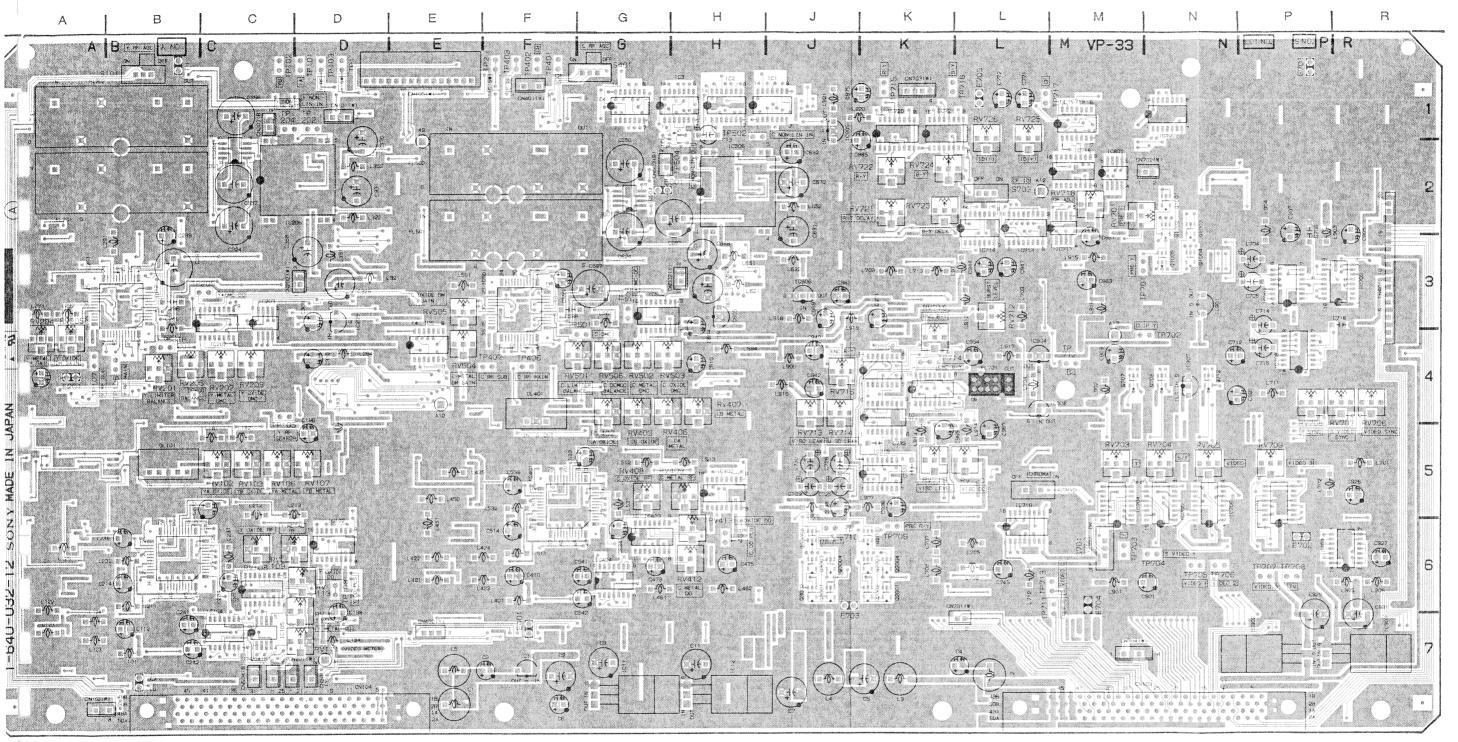
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VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

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D-1 A-7 N-7 C-7 E-1 C-7 D-7 F-1 E-7 D-7 H-3 G-2 C-7 L-1 N-2	IC 204 IC 205 IC 206 IC 401 IC 402 IC 403 IC 501 IC 502 IC 506 IC 605 IC 701 IC 702 IC 703 IC 704 IC 705 IC 706 IC 707	2 3 2 5 5 6 6 3 4 2 3 3 5 6 6 6 6 6 5 C D C F H G G F G H H P R R X Z P P	L 401 L 421 L 422 L 423 L 424 L 425 L 461 L 462 L 511 L 512 L 513 L 531 L 531 L 532 L 561 L 591 L 594 L 621 L 622	- С-С-С-С-С-С-С-С-С-С-С-С-С-С-С-С-С-С-С	* Q 169 * Q 181 * Q 182 * Q 183 * Q 184 * Q 185 * Q 186 * Q 187 * Q 188 * Q 190 * Q 191 * Q 192 * Q 193 * Q 201 Q 202 * Q 205	B-5 A-4 A-5 A-5 A-5 B-5 B-5 B-6 C-4 C-7 D-7	* Q 501 * Q 513 * Q 514 * Q 515 * Q 551 * Q 550 * Q 562 * Q 563 * Q 563 * Q 564 * Q 565 * Q 566 * Q 570 * Q 591 * Q 621 * Q 623	G-75-5-6-7-5-5-5-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	* Q 756 * Q 757 * Q 758 * Q 759 * Q 760 * Q 761 * Q 762 * Q 763 * Q 764 * Q 766 * Q 767 * Q 767 * Q 770 * Q 771 * Q 772 * Q 773 Q 1001	K-2 K-3 K-3 K-3 K-2 L-1 L-1 L-2 L-2 N-1 K-2 K-2 K-2 K-2	RV RV RV RV RV RV RV RV RV S 14 S 5 7	/ 714 / 715 / 716 / 718 / 719 / 720 / 721 / 722 / 723 / 724 / 725 / 726	J-4 J-4 K-4 J-4 M-2 K-5 L-5 K-2 K-2 K-2 L-1 L-1 B-1 M-5 L-5
R-3 B-5	IC 710 IC 711 IC 712	K-5 K-5 K-4	L 652 L 701 L 702	J-2 R-5 P-5 L-3	* Q 211 * Q 212 * Q 213 * Q 214	C-5 C-5 C-6 D-6	* Q 624 * Q 625 * Q 626 * Q 627	H-2 H-2 H-2 H-2	Q 1003 Q 1004 Q 1005 Q 2001	N-2 N-3 N-3 K-6	TP TP	1 2	D-1 F-1 D-1
G-7 B-2 F-3 S-8 P-3 N-4 L-2 L-2 N-3 L-4 P-6 K-4 K-4	IC 714 IC 715 IC 716 IC 717 IC 718 IC 720 IC 721 IC 722 IC 901 IC 902 IC 903 IC 904 IC 905	L-3 K-4 L-6 M-3 M-2 M-1 K-2 K-2 N-1 N-3 P-7 P-7 L-4 J-1	L 704 L 705 L 706 L 707 L 708 L 709 L 710 L 711 L 712 L 901 L 902 L 903 L 904 L 905	L-4 L-6 L-6 K-6 K-3 P-4 L-6 M-4 P-2 R-6	* Q 215 * Q 241 * Q 250 * Q 252 * Q 261 * Q 262 * Q 263 * Q 264 * Q 265 * Q 266 * Q 267 * Q 268 * Q 269 * Q 270	C-6 C-7 B-6 B-5 B-3 C-3 C-3 C-3 C-3 C-3 C-3 C-3 C-3 C-3 C	* Q 628 * Q 629 * Q 701 * Q 702 * Q 703 * Q 704 * Q 705 * Q 706 Q 707 Q 708 * Q 709 * Q 710 * Q 711 Q 712	H-2 H-2 N-2 N-3 M-3 M-3 N-3 N-4 M-4 N-4 N-4 N-4	Q 2002 Q 2003 Q 2004 Q 2005 Q 3001 Q 3002 Q 3003 Q 3004 Q 3005 RV 102 RV 103 RV 106 RV 107	K-6 K-6 K-6 J-6 J-6 J-6 J-5 J-5 D-5	TP T	102 103 105 106 107 108 201 202 204 205 401 402 403 406	C-1 D-1 C-4 B-4 A-4 D-6 B-4 D-1 C-3 F-1 F-1 F-4
B-1 B-7 A-4 F-7 P-1 R-7 J-6 M-6 L-1	IC 906 IC 907 IC 908 L 1 L 2 L 3 L 4 L 5 L 101 L 121	U-3 N-4 L-4 E-7 L-7 K-7 J-7 E-7 B-7 A-7	L 906 L 907 L 908 L 909 L 910 L 911 L 912 L 913 L 914 L 915 L 916	H-6 K-5 J-5 J-4 L-3 L-3 K-5 L-5 M-3 M-3	* Q 291 * Q 292 * Q 293 * Q 294 * Q 301 * Q 321 * Q 322 * Q 323 * Q 324 * Q 325 * Q 326	A-3 A-3 A-3 C-3 A-3 C-2 C-2 C-2 D-2	* Q 713 * Q 714 * Q 715 * Q 716 * Q 717 * Q 718 * Q 719 * Q 728 * Q 729 * Q 730 * Q 731	H-5 R-5 R-5 R-5 R-5 F-5 K-6 K-4 K-4	RV 109 RV 111 RV 112 RV 113 RV 201 RV 202 RV 203 RV 204 RV 205 RV 206	C-6 C-6 D-7 D-6 B-4 C-4 C-4 A-4 A-4 B-4	TP TP TP TP TP TP TP TP	408 501 502 504 505 701 702 703 704 705	H-6 G-4 J-2 H-2 G-3 M-3 N-4 M-6 N-6 N-6
B-2 B-1 F-2 L-4	L 122 L 123 L 124 L 125	A-6 A-7 A-6 A-6	L 917 L 918 L 919 L 920	L-4 J-3 J-3 J-1	* Q 327 * Q 328 * Q 329 * Q 351	C-2 C-2 D-2 A-3	* Q 732 * Q 733 * Q 734 * Q 735	K-4 K-4 L-3 M-3	RV 403 RV 406 RV 407	G-4 G-4 G-4 H-4	TP TP TP	707 708 709	N-6 P-6 P-6 K-6
H-1 H-1 G-1 E-4 S-8 F-7 G-7 H-7 B-6 C-6 C-7 C-7 B-3 B-4 C-4	L 181 L 182 L 183 L 184 L 211 L 212 L 213 L 231 L 232 L 261 L 291 L 292 L 293 L 294 L 321 L 322 L 351 L 352	C-5 C-5 5 7 6 5 5 5 6 6 6 3 3 3 3 4 -3 2 D-2 D-2 2 D-2 2	*Q 120 *Q 121 *Q 122 *Q 123 *Q 124 *Q 125 *Q 126 *Q 127 *Q 128 *Q 161 *Q 162 *Q 163 *Q 164 *Q 165 *Q 167 *Q 168	J-1 A-7 A-6 A-7 A-6 A-5 A-5 A-5 A-5 B-5 B-5 B-5	* Q 352 * Q 420 * Q 421 * Q 422 * Q 423 * Q 424 * Q 426 * Q 427 * Q 428 * Q 461 * Q 462 * Q 463 * Q 464 * Q 465 * Q 466 * Q 467 * Q 468	C-1 7-6-5-6-6-6-5-5-5-4-4-5-5-5-5-5-5-5-5-5-5	* Q 736 * Q 737 * Q 738 * Q 739 * Q 740 * Q 741 * Q 742 * Q 743 * Q 746 * Q 747 * Q 748 * Q 749 * Q 750 * Q 751 * Q 752 * Q 753 * Q 754 * Q 755	M-3 L-3 L-5 L-5 L-5 L-5 L-6 K-5 K-3 K-3 K-3	RV 408 RV 412 RV 413 RV 501 RV 502 RV 503 RV 505 RV 506 RV 701 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 709 RV 712	G-5-5-6-6-6-4-4-4-3-4-2-5-5-5-4-4-5-5-5-5-4-4-7-5-5-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1	TP TP TP TP TP TP	711 712 713 714 715 716	J-6 M-6 M-4 M-6 K-4 K-1 K-1
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908 A-1 IC 908	D-1	D-1	D-1 IC 204 C-2 L 401 F-6 A-7 IC 205 D-3 L 421 E-6 N-7 IC 206 C-2 L 422 E-6 C-7 IC 401 F-5 L 423 F-6 E-1 IC 402 H-5 L 424 F-6 C-7 IC 403 G-6 L 425 E-5 D-3 IC 404 G-6 L 425 E-5 C-7 IC 501 F-3 L 462 H-6 C-1 IC 501 F-3 L 462 H-6 C-1 IC 501 F-3 L 462 H-6 C-1 IC 501 F-3 L 462 H-6 C-7 IC 502 G-4 L 511 F-6 F-1 IC 506 H-2 L 512 G-5 E-7 IC 605 H-3 L 513 H-5 D-7 IC 701 P-3 L 531 H-5 H-3 IC 702 R-3 L 532 F-5 G-2 IC 703 R-6 L 561 G-3 C-7 IC 704 M-6 L 591 E-3 L-1 IC 705 N-6 L 594 H-4 N-2 IC 706 N-6 L 621 H-3 K-1 IC 707 P-6 L 652 J-2 IC 710 K-5 L 701 R-5 B-5 IC 712 K-4 L 702 P-5 F-4 IC 713 L-3 L 703 L-3 IC 716 L-6 L 706 L-6 B-2 IC 716 L-6 L 706 L-6 B-2 IC 716 L-6 L 706 L-6 B-2 IC 716 L-6 L 706 L-6 B-3 IC 717 M-3 L 707 K-6 B-2 IC 716 L-6 L 706 L-6 B-3 IC 719 M-1 L 709 K-3 N-4 IC 720 K-2 L 711 R-4 L-2 IC 721 K-2 L 711 L-3 L-2 IC 722 N-1 L 712 L-6 N-3 IC 901 N-3 L 901 M-6 L-4 IC 905 J-1 L 903 P-2 K-4 IC 905 J-1 L 905 M-6 B-1 L 123 A-7 L 913 K-5 B-1 L 123 A-7 L 913 K-5 B-2 L 124 A-6 L 919 J-3 L-1 L 180 D-5 R -6 L 920 J-1 L-1 L 181 D-5 R -6 L 920 J-1 L-1 L 182 C-5 R -7 L 913 A-7 B-1 L 121 B-6 R -1 L 125 A-6 B-2 L 122 A-6 L 127 A-6 B-3 L 121 B-6 R -1 L 127 A-6 B-4 L 125 A-6 L 127 A-6 B-5 L 121 B-6 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3 R -1 L 127 A-6 B-6 L 291 B-3	D-1 IC 204 C-2 L 401 F-6 * C 169 A-7 IC 205 D-3 L 421 E-6 * C 181 N-7 IC 205 C-2 L 422 E-6 * C 181 N-7 IC 205 C-2 L 422 E-6 * C 181 N-7 IC 205 C-2 L 422 E-6 * C 181 N-7 IC 205 C-2 L 422 E-6 * C 182 N-7 IC 205 C-2 L 422 E-6 * C 182 N-7 IC 205 C-7 IC 401 F-5 L 424 F-6 * C 184 N-7 IC 205 C-7 IC 403 G-6 L 425 E-5 * C 185 N-7 IC 403 G-6 L 425 E-5 * C 185 N-7 IC 403 G-6 L 425 E-5 * C 185 N-7 IC 403 G-6 L 425 E-5 * C 185 N-7 IC 500 G-4 L 511 F-6 * C 188 N-7 IC 500 G-4 L 511 F-6 * C 188 N-7 IC 500 G-4 L 511 F-6 * C 188 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K-5	D-1 IC 204 C-2 L 401 F-6 * Q 169 B-5 A-7 IC 205 D-3 L 421 E-6 * Q 181 A-4 A-4 N-7 IC 206 C-2 L 422 E-6 * Q 182 A-5 C-7 IC 401 F-5 L 423 F-6 * Q 183 A-5 E-1 IC 402 H-5 L 424 F-6 * Q 183 A-5 E-1 IC 402 H-5 L 424 F-6 * Q 184 A-4 C-7 IC 403 G-6 L 425 E-5 * Q 185 A-5 D-3 IC 404 G-6 L 425 E-5 * Q 185 A-5 C-7 IC 502 G-4 L 511 F-6 * Q 187 B-4 C-7 IC 502 G-4 L 511 F-6 * Q 187 B-4 C-7 IC 502 G-4 L 511 F-6 * Q 188 B-5 E-7 IC 502 G-4 L 511 F-6 * Q 188 B-5 E-7 IC 502 G-4 L 511 G-6 * Q 189 B-5 E-7 IC 502 G-4 L 511 G-6 * Q 189 B-5 E-7 IC 502 G-4 L 511 G-5 * Q 199 B-4 D-5 C-7 IC 701 P-3 L 513 G-5 * Q 199 B-4 D-5 C-7 IC 702 R-3 L 533 G-5 * Q 199 C-4 C-7 IC 704 M-6 L 531 B-3 R-5 * Q 199 C-4 C-7 IC 704 M-6 L 531 B-3 R-6 R-7 IC 706 R-6 L 621 H-3 Q 202 D-7 R-7 IC 706 R-6 L 621 H-3 Q 202 D-7 R-7 IC 707 R-6 L 622 J-3 Q 202 D-7 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-8 IC 710 R-5 R-7 IC 711 K-5 L 701 R-5 Q 211 C-5 R-4 IC 713 L-3 L 703 L-3 R-7 IC 714 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 714 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 708 R-4 L 551 H-3 Q 202 D-7 R-7 IC 714 R-5 L 701 R-5 Q 211 C-5 R-4 IC 713 L-3 L 703 L-3 R Q 204 R-4 R-8 IC 714 R-9	D-1	D-1	D-1	D-1	D. 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VP-33AP

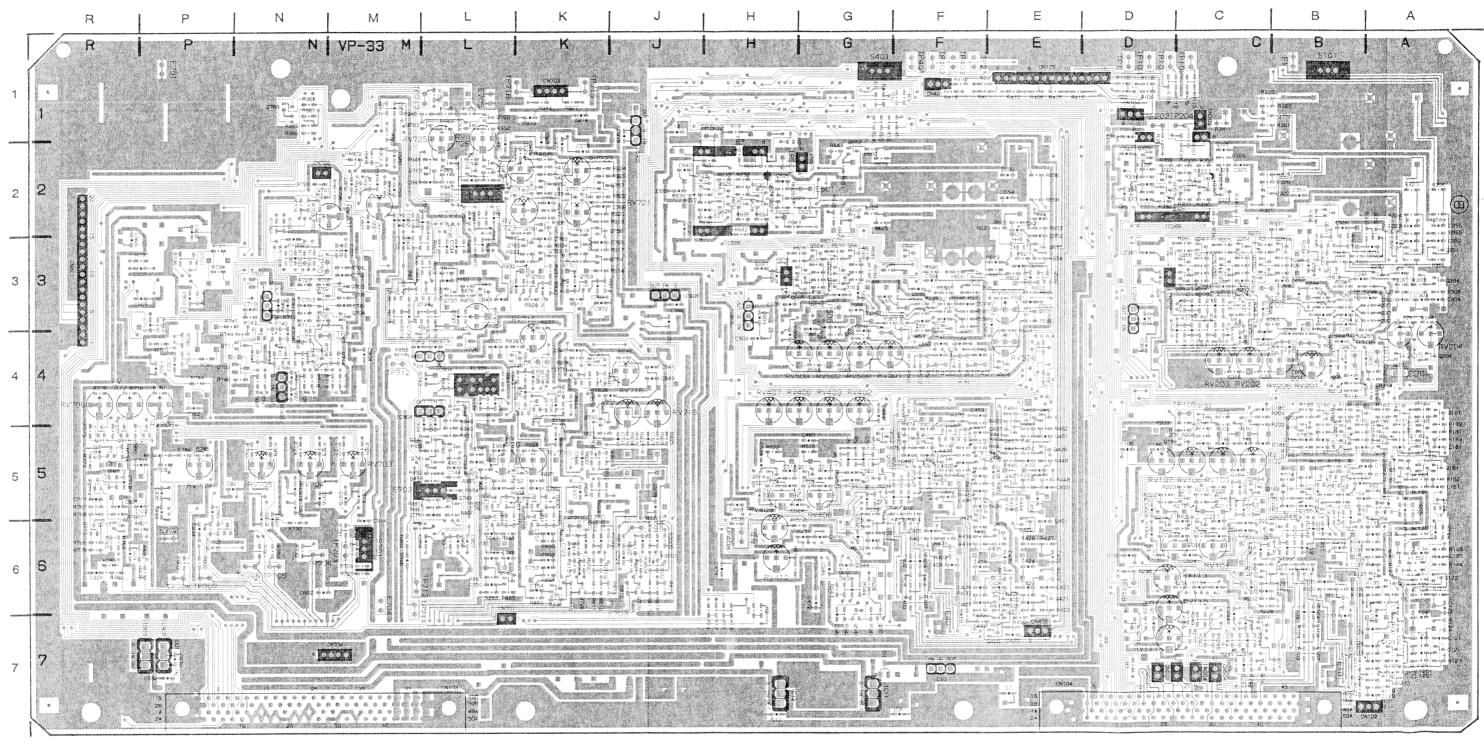


VP-33AP 1-640-032-12 A SIDE

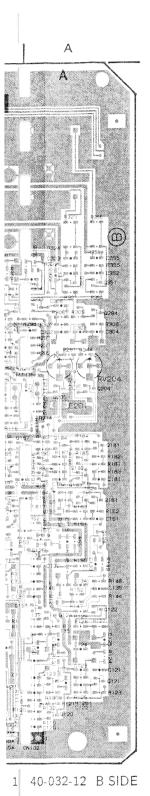
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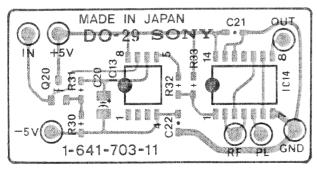
VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

DO-29 ; DROP OUT DETECTOR



VP-33AP 1-640-031-12 B SIDE





DO-29 1-641-703-11 B SIDE

VP-33AP (1-640-032-12))									
CN 101 CN 102 CN 103 CN 104 CN 105 CN 201 CN 202 CN 203 CN 204 CN 401 CN 402 CN 501 CN 501 CN 503 CN 701 CN 702 CN 703 CN 704 CN 801	D-1 A-7 N-7 C-7 E-1 C-7 D-3 C-1 E-7 D-7 H-3 G-2 C-7 L-1 N-2 K-1 M-7 R-3	IC 204 IC 205 IC 206 IC 401 IC 402 IC 403 IC 404 IC 501 IC 502 IC 506 IC 605 IC 701 IC 702 IC 703 IC 704 IC 705 IC 707 IC 708 IC 707 IC 708 IC 710	CDCF.5666342339666666455	L 401 L 421 L 422 L 423 L 424 L 425 L 461 L 462 L 511 L 512 L 513 L 531 L 532 L 561 L 591 L 594 L 621 L 622 L 652 L 652 L 701	FEEFFEGHFGTGFGEHTJHJF	* Q 169 * Q 181 * Q 182 * Q 183 * Q 184 * Q 185 * Q 187 * Q 188 * Q 189 * Q 190 * Q 191 * Q 192 * Q 193 * Q 201 * Q 202 * Q 205 * Q 211 * Q 212	B-5 A-4 A-5 A-5 A-5 B-5 B-5 B-5 C-4 C-7 D-7 A-4 A-5 C-5	*Q 5513 *Q 5514 *Q 5515 *Q 5541 *Q 5552 *Q 5662 *Q 5663 *Q 5664 *Q 5666 *Q 5666 *Q 5670 *Q 591 *Q 6221 *Q 6223 *Q 6224 *Q 625	G-75-56-75-53-33-33-33-33-22-22-22-13-13-13-13-13-13-13-13-13-13-13-13-13-	* Q 756 * Q 757 * Q 758 * Q 759 * Q 760 * Q 761 * Q 762 * Q 763 * Q 764 * Q 765 * Q 766 * Q 767 * Q 768 * Q 770 * Q 771 * Q 772 * Q 773 Q 1001 Q 1002 Q 1003 Q 1004	K-2 K-3 K-3 K-3 K-2 L-1 L-1 L-1 L-2 L-2 N-1 K-2 L-2 K-2 K-2 N-2 N-2 N-2 N-3
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* D 1 * D 201 * D 501 D 502 * D 701 * D 702 * D 703 * D 704 * D 705 * D 706 * D 707 * D 708 * D 709	G-7 B-2 F-3 S-8 P-3 N-4 L-2 L-2 N-3 L-4 P-6 K-4	IC 714 IC 715 IC 716 IC 717 IC 718 IC 719 IC 720 IC 721 IC 722 IC 901 IC 903 IC 904 IC 905	L-3 K-4 L-6 M-3 M-2 M-1 K-2 K-2 N-1 N-3 P-7 P-7 L-4 J-1	L 704 L 705 L 706 L 707 L 708 L 709 L 710 L 711 L 712 L 901 L 902 L 903 L 904 L 905	L-4 L-6 K-6 K-3 K-3 P-4 L-6 M-4 P-2 P-2	* Q 215 * Q 241 * Q 250 * Q 252 * Q 261 * Q 262 * Q 263 * Q 264 * Q 265 * Q 266 * Q 267 * Q 268 * Q 269 * Q 270	6 6 7 6 5 8 8 6 7 8 8 8 7 8 7 8 8 8 8 7 8 7 8 8 8 8	* Q 628 * Q 629 * Q 701 * Q 702 * Q 703 * Q 704 * Q 705 * Q 706 Q 707 Q 708 * Q 709 * Q 710 * Q 711 Q 712	H-2 H-2 N-2 N-3 M-3 N-3 N-4 M-4 N-4 N-4 N-4	Q 2002 Q 2003 Q 2004 Q 2005 Q 3001 Q 3002 Q 3003 Q 3004 Q 3005 RV 102 RV 103 RV 106 RV 107	K-6-6-6-6-6-6-6-6-5-5-5-5-5-5-6-6-6-6-6-
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FL 201 FL 202 FL 501 FL 701	B-2 B-1 F-2 L-4	L 122 L 123 L 124 L 125	A-6 A-7 A-6 A-6	L 917 L 918 L 919 L 920	L-4 J-3 J-3 J-1	* Q 327 * Q 328 * Q 329 * Q 351	C-2 C-2 D-2 A-3	* Q 732 * Q 733 * Q 734 * Q 735	K-4 K-4 L-3 M-3	RV 402 RV 403 RV 406 RV 407	G-4 G-4 G-4 H-4
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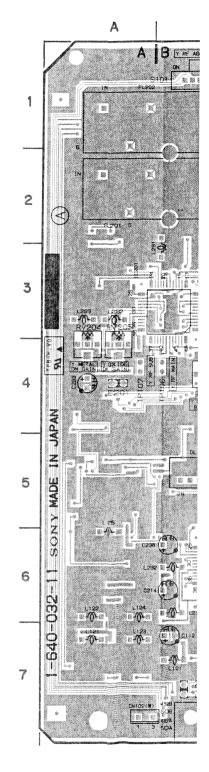
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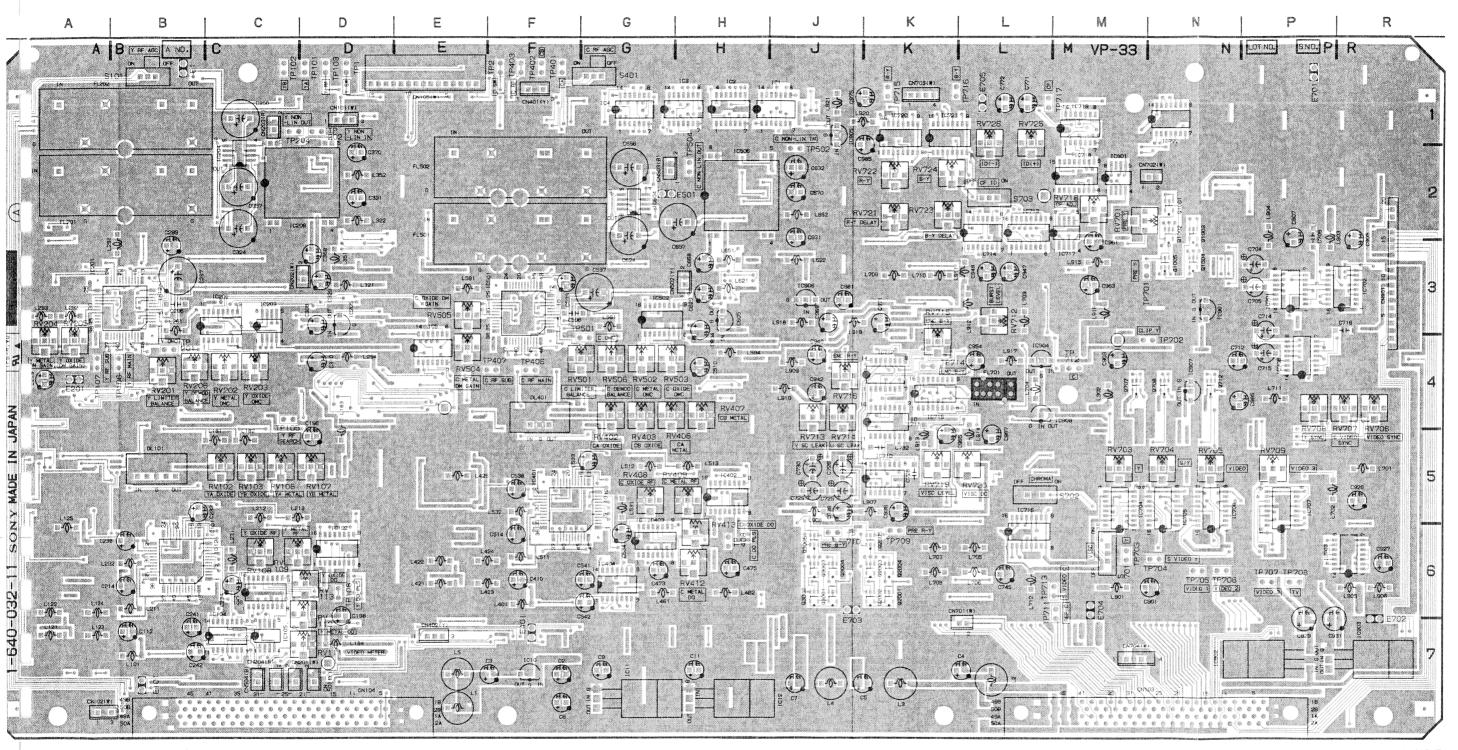
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B-1 G-1 M-6 L-5 L-2

VP-33AP; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER

VP-33AP (1	-640-032-11)												
CN 102 CN 103 CN 104 CN 105 CN 203 CN 204 CN 401 CN 402 CN 503 CN 504 CN 701 CN 702 CN 703 CN 704 CN 801	A-7 N-7 C-7 E-1 C-1 C-7 F-1 E-7 G-2 C-7 L-7 N-2 K-1 M-7 R-3	IC 403 IC 404 IC 501 IC 502 IC 506 IC 605 IC 701 IC 702 IC 703 IC 704 IC 705 IC 706 IC 707 IC 708 IC 710 IC 711	G-6 G-3 F-3 H-2 H-3 P-3 R-6 N-6 P-6 P-4 K-5	L 425 L 461 L 462 L 511 L 512 L 513 L 531 L 532 L 561 L 591 L 621 L 622 L 651 L 652 L 701	E-5-6-6-5-5-5-5-3-3-4-3-3-3-2-5-5-5-3-3-4-3-3-3-2-5-5-5-5-3-3-4-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-5-5-5-5-5-5-5-3-3-4-3-3-3-3-2-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5	*Q 185 *Q 186 *Q 187 *Q 188 *Q 189 *Q 190 *Q 191 *Q 192 *Q 193 *Q 194 *Q 201 *Q 202 *Q 204 *Q 205 *Q 211 *Q 212	A-5 B-4 B-5 B-5 B-4 B-5 C-4 C-7 D-7 A-4 C-5 C-5	*Q 570 *Q 571 *Q 591 *Q 592 *Q 621 *Q 622 *Q 623 *Q 623 *Q 625 *Q 625 *Q 626 *Q 627 *Q 628 *Q 629 *Q 701 *Q 702 *Q 703	F-3 F-3 F-3 E-3 E-2 H-2 H-2 H-2 H-2 H-2 M-3	*Q 768 *Q 770 *Q 771 *Q 772 *Q 773 Q 1001 Q 1002 Q 1003 Q 1004 Q 1005 Q 2001 Q 2002 Q 2003 Q 2004 Q 2005 Q 3001	N-1 K-2 K-2 K-2 K-2 N-2 N-3 N-6 K-6 K-6 K-6 J-6	RV 726 S 101 S 401 S 701 S 702 S 703 TP 1 TP 2 TP 101 TP 102 TP 103 TP 105 TP 106 TP 107	L-1 B-1 G-1 M-6 L-5 L-2 D-1 F-1 D-1 C-1 D-4 B-4 A-4
DL 101 DL 401 *D 1 *D 201 *D 501 D 502 *D 701 *D 702 *D 703 *D 704 *D 705 *D 706 *D 707 *D 708 *D 709	B-5 F-4 G-7 B-2 F-3 S-8 P-3 N-4 L-2 L-2 N-3 L-4 P-6 K-4 K-4	IC 712 IC 713 IC 714 IC 715 IC 716 IC 717 IC 718 IC 720 IC 721 IC 722 IC 901 IC 902 IC 903 IC 904 IC 905 IC 906	K-4 L-3 L-3 K-4 L-6 M-3 M-2 M-1 K-2 N-1 N-3 P-7 L-4 J-1 J-3	L 702 L 703 L 704 L 706 L 706 L 707 L 708 L 709 L 710 L 711 L 712 L 901 L 902 L 903 L 904 L 905 L 906	P-5 L-4 L-6 L-6-6 K-3 P-4 M-4 P-2 P-2 R-6	*Q 213 *Q 214 *Q 215 *Q 241 *Q 250 *Q 252 *Q 261 *Q 262 *Q 263 *Q 266 *Q 270 *Q 291 *Q 292 *Q 293 *Q 294	C-6 D-6 C-7 B-5 B-3 C-3 C-3 C-3 C-3 B-3 A-3 A-3	*Q 704 *Q 705 *Q 706 Q 707 Q 708 *Q 709 *Q 710 *Q 711 Q 712 *Q 713 *Q 714 *Q 715 *Q 716 *Q 717 *Q 718 *Q 718 *Q 718	M-3 N-3 N-4 M-4 N-4 N-4 N-4 N-5 F-5 F-5 F-5 K-6	Q 3002 Q 3003 Q 3004 Q 3005 RV 102 RV 103 RV 106 RV 107 RV 108 RV 109 RV 111 RV 112 RV 113 RV 201 RV 201 RV 202 RV 203	J-6 J-6 J-6 J-6 J-6 C-55 D-5 C-7 D-6 B-4 C-4	TP 108 TP 201 TP 202 TP 204 TP 205 TP 401 TP 402 TP 403 TP 406 TP 407 TP 408 TP 501 TP 502 TP 504 TP 504 TP 501 TP 701 TP 702	D-6 B-4 D-1 C-1 F-1 F-1 F-4 H-6 J-2 G-3 M-4
E 1 E 101 E 201 E 401 E 701 E 702 E 703 E 704 E 705 FL 201 FL 202 FL 501 FL 701	B-1 B-7 A-4 F-7 P-1 R-7 J-6 M-6 L-1 B-2 B-1 F-2 L-4	L 1 L 2 L 3 L 4 L 5 L 101 L 121 L 122 L 123 L 124 L 125 L 181	N-4 L-4 E-7 L-7 K-7 J-7 E-7 B-7 A-6 A-7 A-6 A-6 C-5	L 907 L 908 L 909 L 910 L 911 L 912 L 913 L 914 L 915 L 916 L 917 L 918 L 919 L 920 L 921	K-5 J-4 J-4 L-3 L-5 M-3 M-3 L-4 J-3 J-1 J-1	*Q 321 *Q 322 *Q 323 *Q 324 *Q 325 *Q 327 *Q 328 *Q 329 *Q 351 *Q 352 *Q 420 *Q 421 *Q 421 *Q 422 *Q 423	A-3 C-2 C-2 C-2 D-2 D-2 C-2 D-2 A-3 C-1 E-7 E-5 E-6	*Q 729 *Q 730 *Q 731 *Q 732 *Q 733 *Q 734 *Q 735 *Q 736 *Q 737 *Q 738 *Q 741 *Q 741 *Q 742 *Q 743	J-6 K-4 K-4 K-4 K-3 M-3 L-3 L-4 L-5 L-5 L-5	RV 204 RV 205 RV 206 RV 402 RV 403 RV 406 RV 407 RV 408 RV 409 RV 412 RV 413 RV 501 RV 502 RV 503 RV 505	A-4 A-4 B-4 G-4 G-4 H-5 H-6 G-4 H-6 G-4 E-3	TP 703 TP 704 TP 705 TP 706 TP 706 TP 708 TP 709 TP 710 TP 711 TP 712 TP 713 TP 714 TP 715 TP 715 TP 716 TP 717	M-6 N-6 N-6 P-6 P-6 M-4 M-6 K-4 K-1 L-1
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 10 IC 11 IC 12 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203 IC 204 IC 205	H-1 H-1 G-1 E-4 S-8 F-7 G-7 H-7 B-6 C-6 C-7 C-7 B-4 C-2 D-3	L 182 L 183 L 184 L 211 L 212 L 231 L 232 L 261 L 292 L 293 L 294 L 321 L 322 L 351 L 352 L 401 L 421	C-D-7-6-5-5-6-6-3-3-3-4-3-2-3-2-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	*Q 120 *Q 121 *Q 122 *Q 123 *Q 124 *Q 125 *Q 126 *Q 127 *Q 161 *Q 162 *Q 163 *Q 164 *Q 165 *Q 167 *Q 168 *Q 169 *Q 181	A-7 A-7 A-6 A-5 A-5 A-5 B-5 B-5 B-5 A-4	*Q 424 *Q 425 *Q 426 *Q 427 *Q 428 *Q 461 *Q 462 *Q 463 *Q 464 *Q 465 *Q 466 *Q 467 *Q 468 *Q 501 *Q 513 *Q 514 *Q 550	665554455555557556756675	*Q 746 *Q 747 *Q 748 *Q 749 *Q 750 *Q 751 *Q 752 *Q 753 *Q 755 *Q 756 *Q 757 *Q 758 *Q 759 *Q 760 *Q 761 *Q 763 *Q 764 *Q 765	L-5 L-6 K-6 K-5 K-3 K-3 K-3 K-3 K-3 K-2 K-2 L-1	RV 506 RV 701 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 712 RV 713 RV 714 RV 715 RV 716 RV 718 RV 719 RV 720 RV 721 RV 722	G-4 M-2 M-5 N-5 N-5 N-5 R-4 P-4 P-5 L-3 J-4 K-4 J-4 K-5 K-5 K-2		
IC 206 IC 401 IC 402	C-2 F-5 H-5	L 422 L 423 L 424	E-6 F-6 F-6	*Q 182 *Q 183 *Q 184	A-5 A-5 A-4	*Q 552 *Q 561 *Q 563	G-5 G-3 G-3	*Q 765 *Q 766 *Q 767	L-1 L-2 L-2	RV 723 RV 724 RV 725	K-2 K-2 L-1		

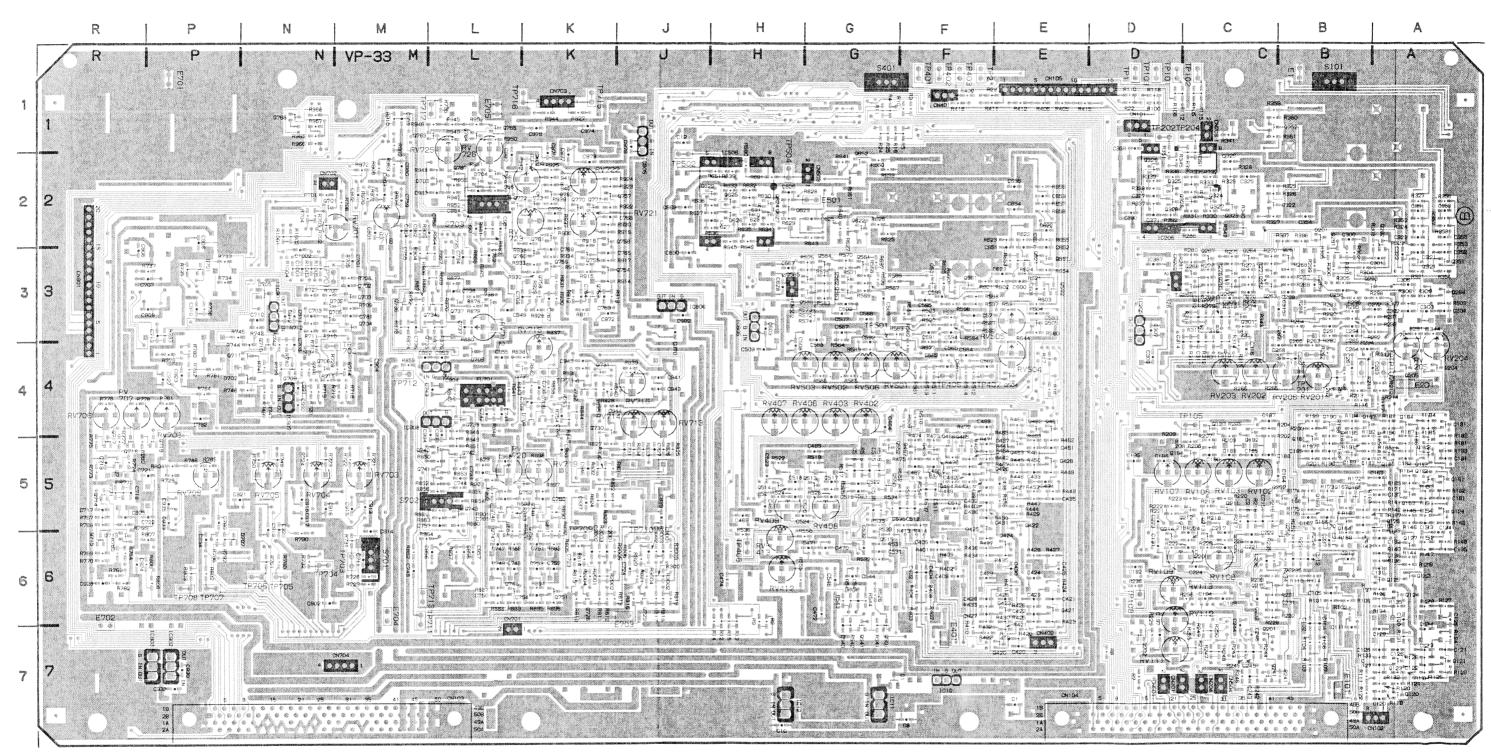




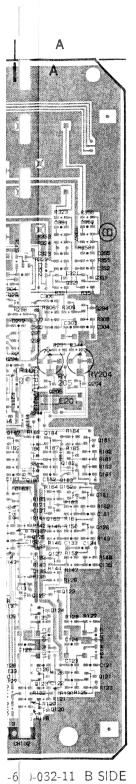
VP-33AP 1-640-032-11 A SIDE

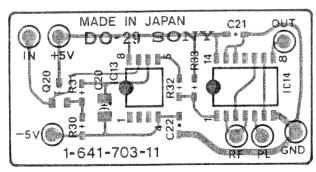
Serial No.(EK); 10001 to 10650

VP-33AP ; Y/C PB PROCESS (PB RF EQ, DEMOD., ENCODE, Y-RF ENVELOPE DET), COMPOSITE OUT DRIVER DO-29 ; DROP OUT DETECTOR



VP-33AP 1-640-032-11 B SIDE





DO-29 1-641-703-11 B SIDE

VP-33AP (1	1-640-032-11)										
CN 102 CN 103 CN 104 CN 105 CN 203 CN 204 CN 401 CN 402 CN 503 CN 504 CN 701 CN 702 CN 703 CN 704 CN 801	A-7 N-7 C-7 E-1 C-1 C-7 F-1 E-7 G-2 C-7 L-7 N-2 K-1 M-7 R-3	IC 403 IC 404 IC 501 IC 502 IC 506 IC 605 IC 701 IC 702 IC 703 IC 704 IC 705 IC 706 IC 707 IC 708 IC 710 IC 711	GGF-3-4 H-3-3-3-6-6-6-6-4-5-5-4 K-5-4-5-5-4	L 425 L 461 L 462 L 511 L 512 L 513 L 531 L 532 L 561 L 591 L 594 L 621 L 622 L 651 L 652 L 701 L 702	E-5-6-6-6-5-5-5-5-3-3-4-3-3-3-2-5-5-5-5-7-5-5-5-5-5-5-5-5-5-5-5-5-5-5	*Q 185 *Q 186 *Q 187 *Q 188 *Q 189 *Q 191 *Q 191 *Q 192 *Q 193 *Q 194 *Q 201 *Q 202 *Q 204 *Q 205 *Q 211 *Q 212 *Q 213	A-5 A-5 B-4 B-5 B-5 B-4 B-5 C-4 C-7 D-7 A-4 C-5 C-6	*Q 570 *Q571 *Q 591 *Q 592 *Q 621 *Q 622 *Q 623 *Q 624 *Q 625 *Q 626 *Q 627 *Q 628 *Q 629 *Q 701 *Q 702 *Q 703 *Q 704	F-3 F-3 F-3 E-3 E-3 H-2 H-2 H-2 H-2 N-3 M-3	*Q 768 *Q 770 *Q 771 *Q 772 *Q 773 Q 1001 Q 1002 Q 1003 Q 1004 Q 1005 Q 2001 Q 2002 Q 2003 Q 2004 Q 2005 Q 3001 Q 3002	N-1 K-2 L-2 K-2 N-2 N-3 K-6 K-6 K-6 K-6 J-6
DL 401	F-4	IC 713 IC 714	L-3 L-3	L 703 L 704	L-3 L-4	*Q 214 *Q 215	D-6 C-6	*Q 705 *Q 706	N-3 N-4	Q 3003 Q 3004	J-6 J-6
*D 1 *D 201 *D 501 D 502 *D 701 *D 702 *D 703 *D 704 *D 705 *D 706 *D 707 *D 708 *D 709	G-7 B-2 F-3 S-8 P-3 N-4 L-2 L-2 N-3 L-4 P-6 K-4	IC 715 IC 716 IC 717 IC 718 IC 719 IC 720 IC 721 IC 722 IC 901 IC 902 IC 903 IC 904 IC 905 IC 906	K-4 L-6 M-3 M-2 M-1 K-2 K-2 N-1 N-3 P-7 P-7 L-4 J-1 J-3	L 705 L 706 L 707 L 708 L 709 L 710 L 711 L 712 L 901 L 902 L 903 L 904 L 905 L 906	L-6 L-6 K-6 K-3 K-3 P-6 M-4 P-2 P-6 R-6	*Q 241 *Q 250 *Q 252 *Q 261 *Q 262 *Q 263 *Q 264 *Q 265 *Q 266 *Q 270 *Q 291 *Q 293 *Q 294	C-7 B-5 B-3 C-3 C-3 C-3 B-3 A-3 A-3	Q 707 Q 708 *Q 709 *Q 710 *Q 711 Q 712 *Q 713 *Q 714 *Q 715 *Q 716 *Q 717 *Q 718 *Q 719 *Q 728	M-4 N-4 N-4 N-4 N-5 R-5 R-5 R-5 R-5 R-5 K-5 K-5	Q 3005 RV 102 RV 103 RV 106 RV 107 RV 108 RV 109 RV 111 RV 112 RV 113 RV 201 RV 202 RV 203	J-6 C-5 C-5 C-5 D-6 D-7 D-6 D-6 B-4 C-4
E 1 E 101 E 201	B-1 B-7 A-4	IC 907 IC 908	N-4 L-4	L 907 L 908 L 909	K-5 J-5 J-4	*Q 321 *Q 322 *Q 323	A-3 C-2 C-2 C-2	*Q 729 *Q 730 *Q 731 *Q 732	J-6 K-4 K-4 K-4	RV 204 RV 205 RV 206 RV 402	A-4 A-4 B-4 G-4
E 401 E 701 E 702 E 703 E 704 E 705	F-7 P-1 R-7 J-6 M-6 L-1	L 1 L 2 L 3 L 4 L 5 L 101 L 121	E-7 L-7 K-7 J-7 E-7 B-7 A-7	L 910 L 911 L 912 L 913 L 914 L 915 L 916	J-4 L-3 L-3 K-5 L-5 M-3 M-3	*Q 324 *Q 325 *Q 326 *Q 327 *Q 328 *Q 329 *Q 351	D-2 D-2 C-2 C-2 D-2 A-3	*Q 732 *Q 733 *Q 734 *Q 735 *Q 736 *Q 737 *Q 738	K-4 L-3 M-3 M-3 L-3 L-3	RV 403 RV 406 RV 407 RV 408 RV 409 RV 412	G-4 G-4 H-4 G-5 H-5 H-6
FL 201 FL 202 FL 501 FL 701	B-2 B-1 F-2 L-4	L 122 L 123 L 124 L 125 L 181	A-6 A-7 A-6 A-6 C-5	L 917 L 918 L 919 L 920 L 921	L-4 J-3 J-3 J-1 J-1	*Q 352 *Q 420 *Q 421 *Q 422 *Q 423	C-1 E-7 E-6 E-5 E-6	*Q 739 *Q 740 *Q 741 *Q 742 *Q 743	L-4 L-5 L-5 L-5 L-5	RV 413 RV 501 RV 502 RV 503 RV 505	H-6 G-4 G-4 G-4 E-3
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 10 IC 11 IC 12 IC 101 IC 102 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203 IC 204 IC 205 IC 206 IC 401 IC 402	H-1 H-1 G-1 E-4 S-8 F-7 G-7 H-7 B-6 C-6 C-7 B-3 B-4 C-2 D-2 C-5 H-5	L 181 L 182 L 183 L 184 L 211 L 212 L 213 L 231 L 232 L 261 L 291 L 292 L 293 L 293 L 294 L 321 L 322 L 351 L 352 L 401 L 422 L 423 L 423 L 424	00000000000000000000000000000000000000	*Q 120 *Q 121 *Q 122 *Q 123 *Q 124 *Q 125 *Q 126 *Q 127 *Q 128 *Q 161 *Q 162 *Q 163 *Q 164 *Q 165 *Q 166 *Q 168 *Q 168 *Q 168 *Q 181 *Q 182 *Q 183 *Q 184	A-7 A-7 A-6 A-6 A-5 A-5 A-5 B-5 B-5 B-5 A-5 A-5 A-5 A-5 A-5 A-5 A-5 A-5 A-5 A	*Q 424 *Q 425 *Q 426 *Q 427 *Q 428 *Q 461 *Q 463 *Q 464 *Q 465 *Q 466 *Q 467 *Q 468 *Q 511 *Q 513 *Q 514 *Q 550 *Q 552 *Q 561 *Q 563	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	*Q 746 *Q 747 *Q 748 *Q 749 *Q 750 *Q 751 *Q 752 *Q 753 *Q 754 *Q 755 *Q 756 *Q 757 *Q 758 *Q 760 *Q 761 *Q 762 *Q 763 *Q 766 *Q 766 *Q 766 *Q 766 *Q 766	L-5 L-6 K-6 K-5 K-3 K-3 K-3 K-3 K-3 K-2 L-1 L-2 L-2	RV 506 RV 701 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 712 RV 713 RV 714 RV 715 RV 716 RV 716 RV 718 RV 720 RV 721 RV 721 RV 721 RV 722 RV 723 RV 724 RV 725	G-4 M-5 M-5 N-5 N-5 R-4 P-5 J-4 K-5 L-5 K-2 K-2 K-2

RV 726 S 101 S 401 S 701 S 702 S 703

TP 1
TP 2
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TP 716
TP 717

L-1 B-1 G-1 M-6 L-5 L-2

A-5 K-1 P-7 P-1 P-1 P-7 M-1 N-1 N-5 R-1 P-6

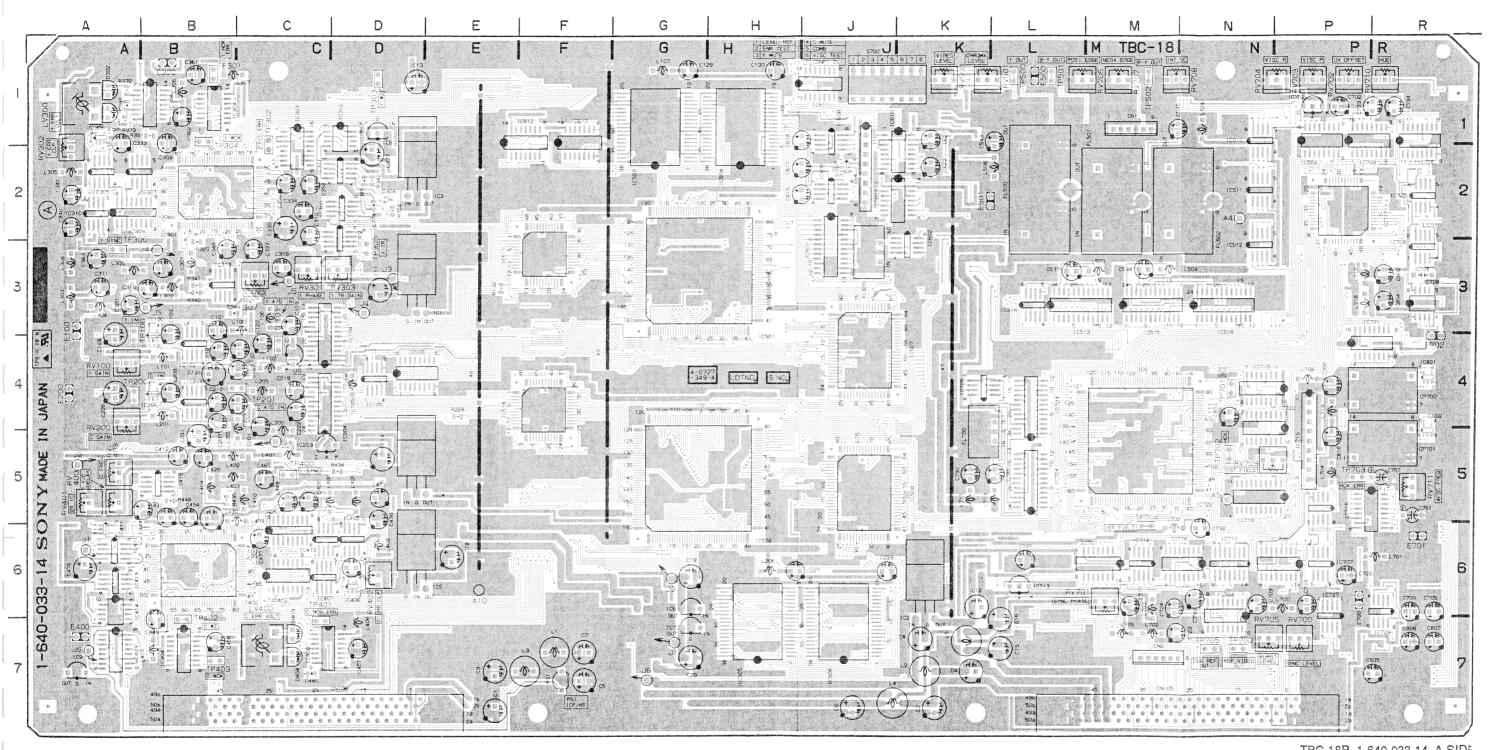
J-1

B-4 C-4 B-4 C-2 D-1 B-1 D-3 C-7 B-7 L-1 L-1 N-7 N-4 N-5 R-6 N-7

TBC-18P; TIME BASE CORRECTOR, CTDM (EXPAND)

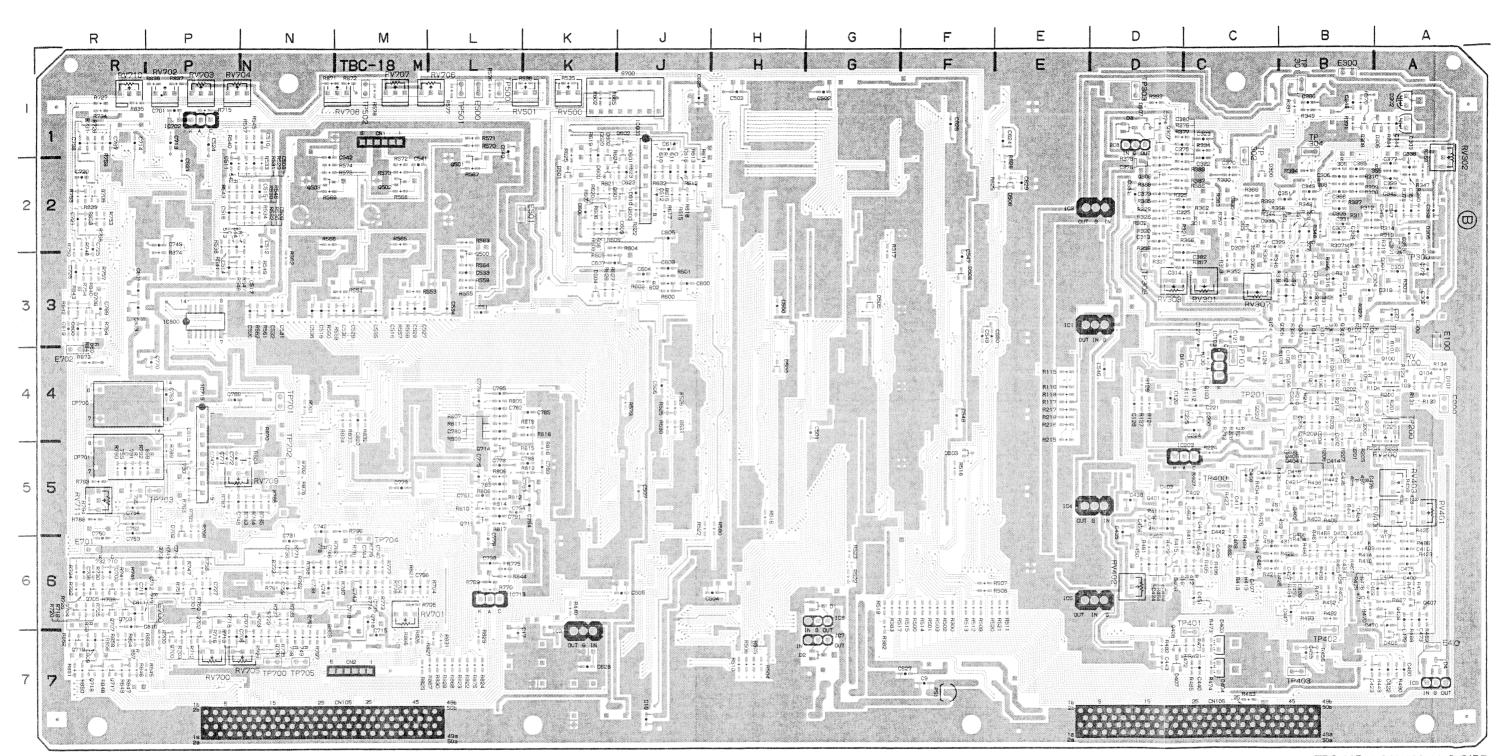
TBC-18P (1-640-033-1	14)						
CN 1 CN 2 CN 105 CN 106	M-1 M-7 N-7 D-7	IC 8 IC 9 IC 100 IC 102 IC 103	D-1 A-7 B-4 B-4 D-4	IC 701 IC 702 IC 703 IC 704 IC 705	M-6 P-1 P-2 N-6 R-2	L 504 L 506 L 508 L 700 L 701	M-3 K-2 N-1 P-6 R-6	RV 403 RV 500 RV 501 RV 700 RV 702
CP 700 CP 701	R-4 R-5	IC 103 IC 104 IC 105 IC 200	D-4 C-4 B-4	IC 707 IC 709 IC 710	P-6 R-3 N-6	L 702 L 703 L 704	M-7 M-6 P-5	RV 703 RV 704 RV 705
*D 1 *D 2 *D 3 *D 4 *D 100 *D 101 *D 200	A-4 A-4 D-1 A-7 D-4 A-4 D-5	IC 201 IC 203 IC 204 IC 300 IC 301 IC 302 IC 304	B-4 D-5 D-5 D-2 B-2 D-2 B-1	IC 711 IC 712 IC 713 IC 714 IC 715 IC 716 IC 717	P-5 M-6 L-6 N-6 P-4 P-5 P-2	L 705 L 706 L 708 L 717 L 718 L 719	M-7 M-6 P-4 P-3 P-3 P-5	RV 706 RV 707 RV 708 RV 709 RV 710 RV 711
*D 200 *D 300 *D 301 D 302 D 303 *D 305 *D 306 *D 307 D 308 *D 309 *D 402 D 403 D 404 *D 406 *D 407 *D 408 *D 500 *D 501	D-3 C-3 A-1 A-1 A-2 A-1 D-1 D-2 C-2 B-6 C-7 C-7 D-6 D-7 A-7 G-4 K-2	IC 305 IC 306 IC 307 IC 308 IC 309 IC 310 IC 311 IC 312 IC 401 IC 402 IC 403 IC 404 IC 405 IC 406 IC 407 IC 408	A-1 A-1 B-2 B-1 A-2 D-2 D-3 A-6 B-6 A-7 D-6 D-6 C-7	IC 718 IC 719 IC 720 IC 721 IC 722 IC 723 IC 724 IC 725 IC 726 IC 727 IC 728 IC 729 *IC 800 IC 801 IC 802 LV 300	N-4 N-4 P-4 P-5 L-5 K-2 P-3 R-4 R-5 R-4 R-5	*Q 100 *Q 101 *Q 102 *Q 103 *Q 104 *Q 200 *Q 201 *Q 202 *Q 203 *Q 301 *Q 302 *Q 304 *Q 305 *Q 306 *Q 307 *Q 308 *Q 401	B-4 B-3 B-4 B-5 B-4 B-3 B-3 B-3 B-3 D-1 B-5	S 700 TP 100 TP 101 TP 200 TP 201 TP 300 TP 301 TP 302 TP 303 TP 304 TP 305 TP 400 TP 401 TP 402 TP 403 TP 500
*D 502 *D 503 *D 504 *D 506 *D 600 *D 601 *D 602 *D 700 *D 701 *D 702 *D 706	F-3 E-5 K-3 E-2 J-2 J-2 R-6 P-6 P-6 R-3	IC 409 IC 410 IC 411 IC 412 IC 413 IC 414 IC 500 IC 500 IC 501 IC 502 IC 503 IC 504	C-6 6-6-6-6-6-6-5-4-3-5-9-5-9-5-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	LV 400 L 1 L 2 L 3 L 4 L 5 L 100 L 101 L 102 L 105 L 106	C-7 F-7 K-7 F-7 K-7 C-3 B-4 C-4 C-4	*Q 402 *Q 404 *Q 405 *Q 406 *Q 407 *Q 408 *Q 428 *Q 500 *Q 501 *Q 502 *Q 503 *Q 600	B-5 C-6 C-5 A-7 B-6 L-3 L-2 M-2 J-2	TP 501 TP 502 TP 700 TP 701 TP 702 TP 703 TP 704 TP 705
E100 E200 E300 E400 E500 E501 E700 E701 E702	A-4 A-4 B-1 A-6 L-1 K-2 P-6 R-6 R-4	IC 505 IC 506 IC 507 IC 508 IC 509 IC 510 IC 511 IC 512 IC 513 IC 514	H-7 J-7 J-4 J-5 P-2 N-2 N-2 N-3 L-3 L-3	L 107 L 200 L 201 L 202 L 205 L 206 L 300 L 301 L 302 L 303	G-1 C-5 B-5 C-4 G-3 C-3 B-3 A-3	*Q 601 *Q 602 *Q 700 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706 *Q 707 *Q 708	J-2 J-1 P-7 P-7 R-6 R-6 R-6 N-7 R-6 P-6	
*FL 1 *FL 2 *FL 3 FL 500 FL 501 FL 502 FL 600	L-6 K-5 L-5 L-2 M-2 M-2 J-3	IC 515 IC 516 IC 517 IC 518 IC 601 IC 602 IC 603	L-3 N-3 F-3 F-5 H-2 K-3 J-2	L 304 L 306 L 307 L 308 L 400 L 401 L 402	A-3 A-1 C-1 A-3 D-5 C-5 B-5	*Q 709 *Q 714 *Q 715 *Q 717 *Q 718 *Q 719	R-2 K-5 L-5 R-7 R-7 R-7	
FL 700 IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7	K-5 E-3 K-7 E-2 E-5 E-6 A-4 A-5	IC 605 IC 607 IC 608 IC 609 IC 610 IC 611 IC 612 IC 613 IC 700	J-1 J-2 H-1 H-2 J-1 J-1 E-2 F-2 P-6	L 403 L 404 L 405 L 406 L 407 L 408 L 409 L 410 L 503	B-5 C-5 D-5 D-7 B-7 D-6 B-5 B-5 L-3	RV 100 RV 200 RV 301 RV 302 RV 303 RV 307 RV 400 RV 401 RV 402	B-4 B-4 C-3 A-2 D-3 C-3 A-5 A-5	

В С C D G LOTNO, S NO. 6



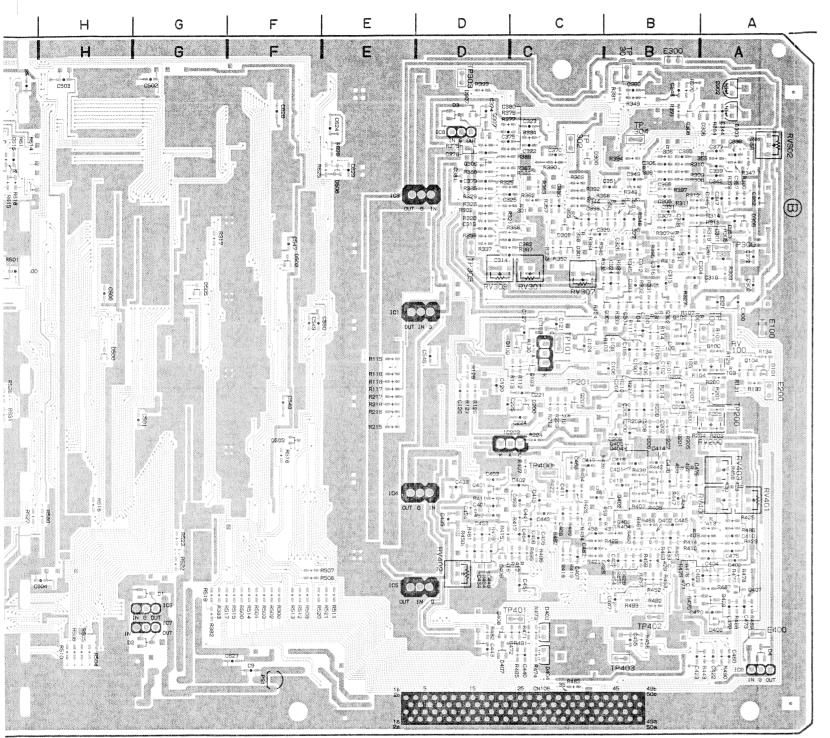
TBC-18P 1-640-033-14 A SIDE

TBC-18P; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-14 BSIDE

TBC-18P



TBC-18P 1-640-033-14 B SIDE

(1-640-033-	14)						
M-1 M-7 N-7 D-7	IC 8 IC 9 IC 100 IC 102	D-1 A-7 B-4 B-4	IC 701 IC 702 IC 703 IC 704	M-6 P-1 P-2 N-6 B-2	L 504 L 506 L 508 L 700	M-3 K-2 N-1 P-6 R-6	RV 403 RV 500 RV 501 RV 700 RV 702
R-4 R-5	IC 104 IC 105	D-4 C-4	IC 707 IC 709	P-6 R-3	L 702 L 703	M-7 M-6	RV 703 RV 704 RV 705
A-4 A-4 D-1 A-7 D-4 A-4 D-5	IC 200 IC 201 IC 203 IC 204 IC 300 IC 301 IC 302 IC 304	B-4 D-5 D-5 D-2 B-2 D-2 B-1	IC 711 IC 712 IC 713 IC 714 IC 715 IC 716 IC 717	P-5 M-6 L-6 N-6 P-4 P-5 P-2	L 704 L 705 L 706 L 708 L 717 L 718 L 719	M-7 M-6 P-4 P-3 P-3 P-5	RV 703 RV 707 RV 707 RV 708 RV 709 RV 710 RV 711
C-2 C-3 A-1 A-1 D-2 A-1 D-2 B-6 C-7 C-6 D-7 G-4 K-3 E-2 J-2 J-2 P-6	IC 305 IC 306 IC 307 IC 308 IC 309 IC 310 IC 311 IC 312 IC 313 IC 401 IC 402 IC 403 IC 404 IC 405 IC 406 IC 407 IC 408 IC 409 IC 410 IC 411 IC 412 IC 413 IC 414 IC 415 IC 500 IC 501	A-2 A-1 B-2 B-1 A-2 D-1 B-3 A-6 B-7 C-6 6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	IC 718 IC 719 IC 720 IC 721 IC 722 IC 723 IC 724 IC 725 IC 726 IC 727 IC 728 IC 729 *IC 800 IC 801 IC 802 LV 300 LV 400 L 1 L 2 L 3 L 4 L 5 L 100 L 101	N-5 N-4 P-4 M-5 L-5 K-4 R-2 P-6 R-3 R-4 R-5 A-1 C-7 F-7 K-7 K-7 K-3 B-4	*Q 100 *Q 101 *Q 102 *Q 103 *Q 200 *Q 201 *Q 202 *Q 203 *Q 301 *Q 304 *Q 305 *Q 306 *Q 307 *Q 308 *Q 401 *Q 405 *Q 406 *Q 408 *Q 408 *Q 500 *Q 501	B-4 B-3 B-4 B-3 B-4 B-3 B-3 B-3 B-1 B-1 B-5 B-6 C-C-6 A-7 C-3 B-1 B-3 B-3 B-1 B-1 B-1 B-1 B-1 B-1 B-1 B-1 B-1 B-1	S 700 TP 100 TP 101 TP 200 TP 201 TP 300 TP 301 TP 302 TP 303 TP 304 TP 305 TP 400 TP 401 TP 402 TP 403 TP 500 TP 501 TP 502 TP 700 TP 701 TP 702 TP 703 TP 704 TP 705
R-3 A-4 A-4 B-1 A-6 L-1 K-2 P-6 R-6 R-4	IC 503 IC 504 IC 505 IC 506 IC 507 IC 508 IC 509 IC 510 IC 511 IC 512 IC 513	G-2 H-2 H-7 J-7 J-4 J-5 P-2 N-2 N-2 N-3 L-3	L 105 L 106 L 107 L 200 L 201 L 202 L 205 L 206 L 300 L 301 L 302	C-4 G-5 B-4 C-5 B-3 C-3 B-3	*Q 503 *Q 600 *Q 601 *Q 602 *Q 700 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706 *Q 707	M-2 J-2 J-1 P-7 R-6 R-6 N-7 R-6	
L-6 K-5 L-5 L-2 M-2 M-2 J-3	IC 514 IC 515 IC 516 IC 517 IC 518 IC 601 IC 602 IC 603	L-3 L-3 N-3 F-3 F-5 H-2 K-3 J-2	L 303 L 304 L 306 L 307 L 308 L 400 L 401 L 402	A-3 A-3 B-1 C-1 A-3 D-5 C-5 B-5	*Q 708 *Q 709 *Q 714 *Q 715 *Q 717 *Q 718 *Q 719	P-6 R-2 L-5 L-5 R-7 R-7	
K-5 E-3 K-7 E-2 E-5 E-6 A-4 A-5	IC 605 IC 607 IC 608 IC 609 IC 610 IC 611 IC 612 IC 613 IC 700	J-1 J-2 H-1 H-2 J-1 J-1 E-2 F-2 P-6	L 403 L 404 L 405 L 406 L 407 L 408 L 409 L 410 L 503	B-5 C-5 D-5 D-7 B-7 D-6 B-5 B-5	RV 100 RV 200 RV 301 RV 302 RV 303 RV 307 RV 400 RV 401 RV 402	B-4 B-4 C-3 A-2 D-3 C-3 A-5 A-5 D-6	
	M-17-77 RR AA-D-A-0-C-C-A-1-2-2-6-77-6-77-4-2-3-5-3-2-2-2-2-6-6-6-3 4-4-1-6-1-2-6-6-4 6-5-5-2-2-2-5-6-4 MM-J-K-E-K-E-J-J-R-P-P-R AA-B-A-L-K-P-R-R L-K-L-M-M-J-K-E-K-E-E-A-A-B-A-L-K-P-R-R L-K-L-M-M-J-K-E-K-E-E-A-A-B-A-B-A-L-K-P-R-R L-K-L-M-M-J-K-E-E-E-A-A-B-A-B-A-L-K-P-R-R L-K-L-M-M-J-K-E-E-E-A-A-B-A-B-A-B-A-B-A-B-A-B-A-B-A-B	M-7 IC 9 N-7 IC 100 D-7 IC 102 IC 103 R-4 IC 104 R-5 IC 200 A-4 IC 201 A-4 IC 201 A-7 IC 300 D-1 IC 204 A-7 IC 300 D-4 IC 301 A-4 IC 302 D-5 IC 304 C-2 IC 305 C-3 IC 306 A-1 IC 307 A-1 IC 309 A-1 IC 310 D-1 IC 311 D-2 IC 312 C-2 IC 313 B-6 IC 401 C-7 IC 402 C-7 IC 403 D-6 IC 404 D-7 IC 405 A-7 IC 406 G-4 IC 407 K-2 IC 408 F-3 IC 409 E-5 IC 411 E-2 IC 413 J-2 IC 414 J-2 IC 415 R-6 IC 500 R-6 IC 500 R-7 R-7 R-7 R-8 R-9 R-9 R-9 R-9 R-9 R-9 R-9 R-1 IC 505 R-1 IC 506 R-1 IC 507 R-1 IC 506 R-2 IC 511 R-1 IC 507 R-2 IC 511 R-1 IC 507 R-2 IC 600 R-2 IC 511 R-2 IC 601 R-3 IC 603 R-7 IC 609 R-1 IC 506 R-2 IC 610 R-2 IC 610 R-2 IC 611 R-6 IC 517 IC 609 R-1 IC 507 R-2 IC 600 R-2 IC 600 R-2 IC 600 R-3 IC 600 R-1 IC 506 R-7 IC 600 R-1 IC 506 R-7 IC 600 R-1 IC 507 R-2 IC 601 R-2 IC 601 R-3 IC 603 R-7 IC 600 R-1 IC 600 R-2 IC 610 R-2 IC 611 R-6 IC 612 R-4 IC 612 R-4 IC 613	M-1 IC 8 D-1 M-7 IC 9 A-7 N-7 IC 100 B-4 D-7 IC 102 B-4 IC 103 D-4 IC 104 D-4 R-5 IC 105 C-4 IC 200 B-4 IC 201 B-4 IC 201 B-4 IC 201 B-4 IC 203 D-5 D-1 IC 204 D-5 A-7 IC 300 D-2 D-4 IC 301 B-2 A-4 IC 302 D-2 D-5 IC 304 B-1 C-2 IC 305 A-2 C-3 IC 306 A-1 IC 307 A-2 IC 309 A-2 A-1 IC 309 A-2 A-1 IC 310 D-2 D-1 IC 311 D-2 IC 312 D-1 C-2 IC 313 B-3 B-6 IC 401 A-6 C-7 IC 402 B-6 C-7 IC 403 A-7 D-6 IC 404 B-7 D-7 IC 405 D-6 IC 404 A-7 D-6 IC 404 B-7 D-7 IC 405 D-6 K-2 IC 409 C-7 F-3 IC 409 C-6 G-4 IC 407 D-6 K-2 IC 410 D-6 K-3 IC 411 A-6 C-7 IC 405 D-6 IC 404 A-6 IC 407 D-6 IC 407 D-6 IC 408 C-7 F-3 IC 409 C-6 F-3 IC 409 C-6 G-4 IC 407 D-6 IC 404 B-7 D-7 IC 405 D-6 IC 404 B-7 D-7 IC 405 D-6 IC 501 D-6 IC 501 D-6 IC 501 D-6 IC 501 D-6 IC 502 G-5 IC 510 N-2 IC 504 H-2 IC 505 H-7 A-4 IC 505 H-7 A-4 IC 505 H-7 A-4 IC 505 H-7 A-4 IC 505 H-7 A-6 IC 501 G-3 IC 504 H-2 IC 511 N-2 IC 510 N-2 IC 510 N-2 IC 511 N-2 IC 510 N-2 IC 510 N-2 IC 510 N-2 IC 510 N-2 IC 511 N-2 IC 510 N-2 IC	M-7 IC 9 A-7 IC 701 M-7 IC 9 A-7 IC 702 N-7 IC 100 B-4 IC 703 D-7 IC 102 B-4 IC 704 IC 103 D-4 IC 707 R-5 IC 105 C-4 IC 709 IC 200 B-4 IC 711 A-4 IC 201 B-4 IC 711 A-4 IC 201 B-4 IC 711 A-7 IC 300 D-5 IC 712 D-1 IC 204 D-5 IC 713 A-7 IC 300 D-2 IC 714 D-4 IC 301 B-2 IC 715 A-4 IC 301 B-2 IC 715 A-4 IC 301 B-2 IC 716 D-5 IC 304 B-1 IC 717 C-2 IC 305 A-2 IC 718 C-3 IC 306 A-1 IC 719 A-1 IC 307 B-2 IC 720 A-1 IC 308 B-1 IC 721 A-2 IC 309 A-2 IC 720 A-1 IC 309 A-2 IC 720 A-1 IC 300 B-2 IC 720 A-1 IC 311 D-2 IC 724 D-2 IC 312 D-1 IC 725 C-2 IC 313 B-3 IC 726 B-6 IC 401 A-6 IC 727 C-7 IC 402 B-6 IC 728 C-7 IC 403 A-7 IC 729 D-6 IC 404 B-7 *IC 800 D-7 IC 405 D-6 IC 801 A-7 IC 406 D-6 IC 801 A-7 IC 406 D-6 IC 801 A-7 IC 407 D-6 K-2 IC 412 C-6 L2 J-2 IC 413 A-6 L3 J-2 IC 414 A-6 L4 J-2 IC 415 B-5 L5 R-6 IC 500 D-4 L 100 R-3 IC 503 G-2 L 105 R-6 IC 500 D-4 L 100 R-6 IC 500 D-2 L 205 K-2 IC 511 N-2 L 206 R-6 IC 511 N-2 L 206 R-7 IC 609 H-2 L 400 R-9 IC 601 H-2 L 400 R-1 IC 601 H-2 L 400 R-2 IC 601 H-2 L 400 R-3 IC 603 J-2 L 402 R-3 IC 609 H-2 L 400 R-5 IC 601 H-2 L 400 R-6 IC 511 N-2 L 206 R-7 IC 609 H-2 L 400 R-8 IC 601 H-2 L 400 R-9 IC 601 H-2 L 400 R-1 IC 601 H-2 L 400 R-2 IC 601 H-2 L 400 R-2 IC 601 H-2 L 400 R-3 IC 603 J-2 L 402 R-3 IC 609 H-2 L 400 R-5 IC 601 H-2 L 400 R-6 IC 601 H-2 L 400 R-7 IC 601 H-2 L 400 R-8 IC 601 H-2 L 400 R-9 IC 601 H-2 L 400 R-9 IC 601 H-2 L 400 R-9 IC 601 H-2 L 400 R-1 IC 601 H-2 L 400 R-2 IC 601 H-2 L 400 R-3 IC 603 ID 2 L 400 R-4 IC 613 F-2 L 440	M-1 IC 8 D-1 IC 701 M-6 M-7 IC 9 A-7 IC 702 P-1 N-7 IC 100 B-4 IC 703 P-2 D-7 IC 102 B-4 IC 703 P-2 IC 103 D-4 IC 705 R-2 IC 103 D-4 IC 705 R-2 IC 105 C-4 IC 709 R-3 IC 200 B-4 IC 710 N-6 IC 201 B-4 IC 711 N-6 A-4 IC 201 B-4 IC 711 N-6 A-4 IC 203 D-5 IC 712 M-6 D-1 IC 204 D-5 IC 713 L-6 A-7 IC 300 D-2 IC 714 N-6 D-4 IC 301 B-2 IC 715 P-4 A-4 IC 301 B-2 IC 715 P-4 A-4 IC 302 D-2 IC 716 N-6 D-4 IC 303 B-1 IC 717 P-2 C-2 IC 305 A-2 IC 718 N-5 C-3 IC 306 A-1 IC 719 N-4 A-1 IC 308 B-1 IC 721 P-4 A-2 IC 309 A-2 IC 722 M-5 A-1 IC 310 A-2 IC 722 M-5 A-1 IC 311 D-2 IC 724 L-5 D-1 IC 311 D-2 IC 724 L-5 D-2 IC 313 B-3 IC 726 R-2 B-6 IC 401 A-6 IC 727 P-6 C-7 IC 402 B-6 IC 727 R-6 C-7 IC 403 A-7 IC 729 R-6 C-7 IC 403 A-7 IC 729 R-6 C-7 IC 404 B-7 **IC 800 P-3 D-7 IC 405 D-6 IC 801 R-4 A-7 IC 406 D-6 IC 802 R-5 IC 410 D-6 K-3 IC 411 A-6 L 1 F-7 E-2 IC 412 C-6 L 2 K-7 J-2 IC 413 A-6 L 3 F-7 J-2 IC 414 A-6 L 4 K-7 J-2 IC 414 A-6 L 4 K-7 J-2 IC 415 B-5 IC 504 H-2 L 106 C-4 A-4 IC 506 J-7 L 200 C-5 R-6 IC 507 J-4 L 200 B-3 R-6 IC 501 R-2 L 303 A-3 R-6 IC 503 J-1 L 303 A-3 R-6 IC 503 J-1 L 403 B-5 IC 504 H-2 L 106 C-4 A-4 IC 506 J-7 L 200 C-5 R-6 IC 507 R-6 IC 507 R-6 IC 507 R-6 IC 507 R-6 IC 508 J-5 L 5 IC 6 R-6 IC 507 R-7 R-6 IC 507 R-7 R-6 IC 507 R-7 R-6 IC 507 R-7 R-6 IC 508 J-5 L 5 R-6 IC 508 J-5 L 5 R-6 IC 509 R-2 L 205 C-4 R-7 IC 408 R-9 R-8 ID 10 R-9 R-6 IC 507 R-9 R-6 IC 508 J-5 L 200 C-5 R-6 IC 507 R-7 R-6 IC 507 R-9 R-6 IC 507 R-9 R-6 IC 508 R-9 R-6 IC 507 R-9 R-6 IC 508 R-9 R-6 IC 508 R-9 R-6 IC 508 R-9 R-7 R-7 IC 409 R-9 R-8 ID 10 R-9 R-6 IC 508 R-9 R-6 IC 508 R-9 R-7 IC 409 R-9 R-7 IC 409 R-9 R-8 ID 10 R-9 R-6 IC 509 R-2 L 205 C-4 R-7 IC 409 R-9 R-6 IC 509 R-9 R-7 L 200 C-5 R-7 IC 409 R-9 R-8 ID 10 R-9	M-1	M-1

A-5 K-1 L-1 P-7 P-1 P-1 N-7 M-1 M-1 P-5 R-1 R-5

J-1

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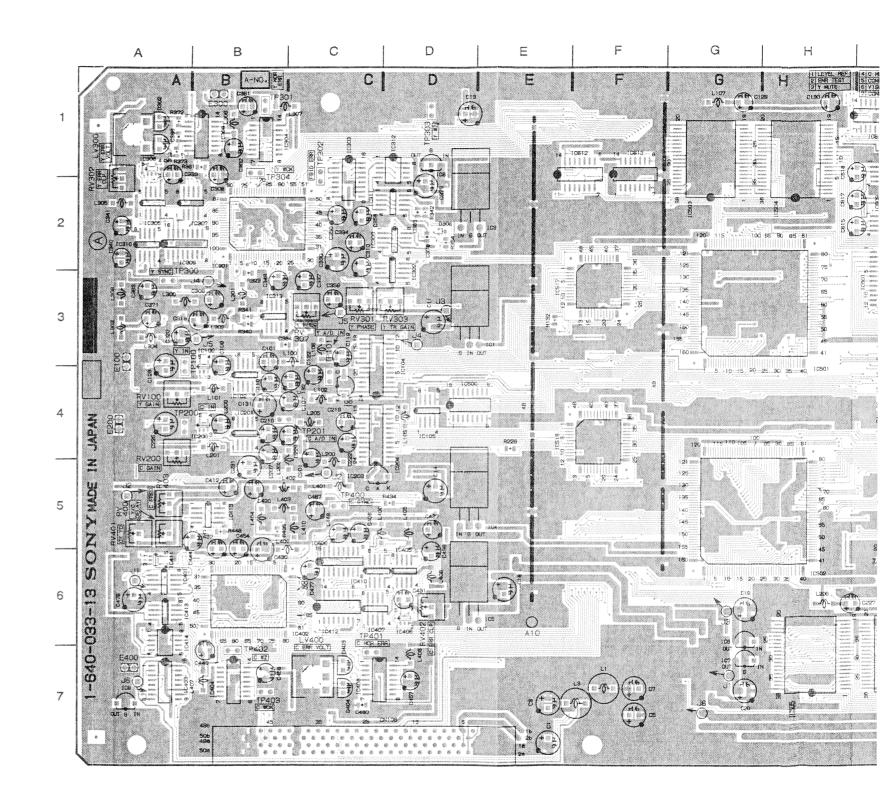
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J-1

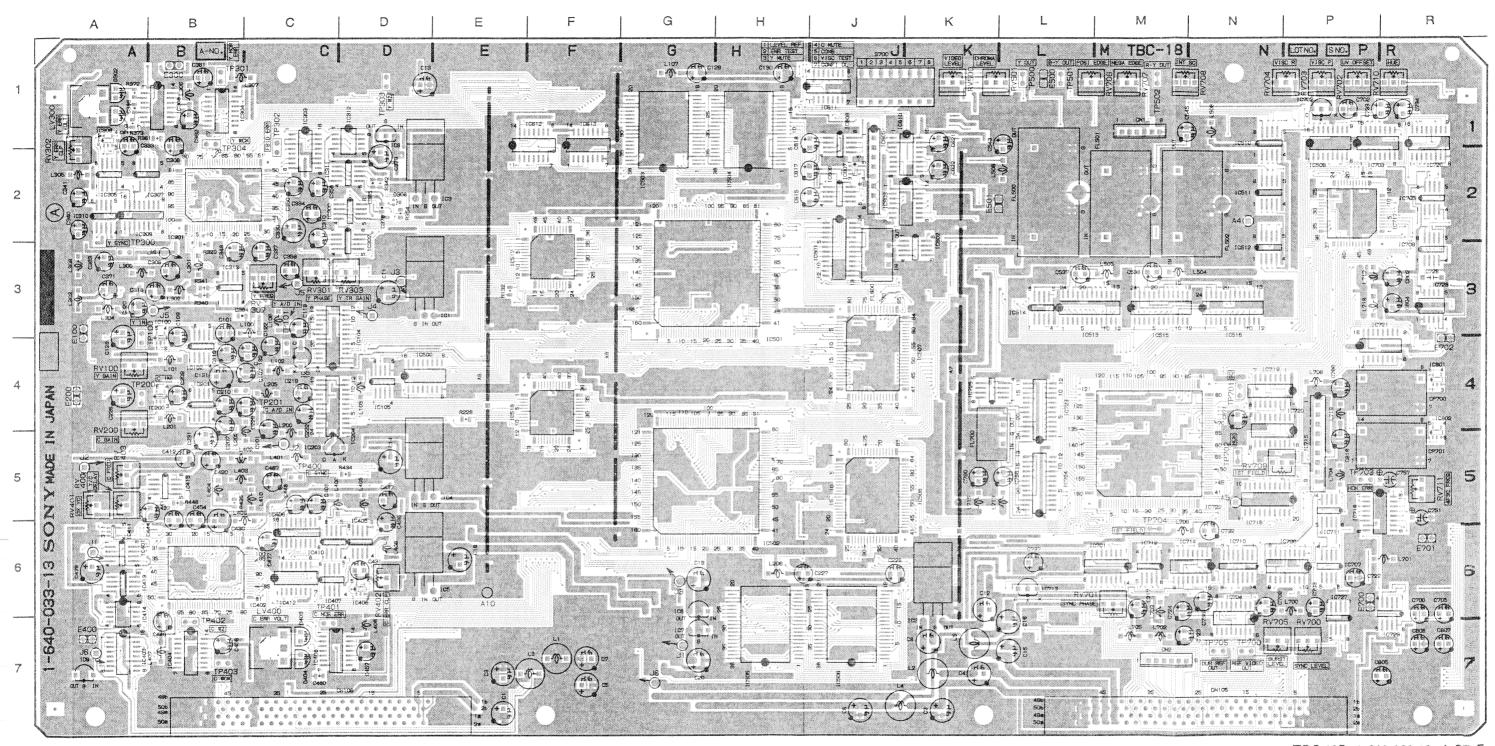
A-4 C-4 A-4 B-3 B-1 C-2 D-1 B-1 D-5 C-7 B-7 L-1 N-7 N-4 N-5 P-5 M-7

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M-1 M-7 N-7 D-7	IC 103 IC 104 IC 105 IC 200	C-4 D-4 D-4 B-4	IC 704 IC 705 IC 707 IC 709	N-6 R-2 P-6 R-3	L 508 L 700 L 701 L 702	N-1 P-6 R-6 M-7	RV 403 RV 500 RV 501 RV 700 RV 701
R-4 R-5	IC 203 IC 204	C-5 D-5	IC 711 IC 712	P-5 M-6	L 704 L 705	P-5 M-7	RV 702 RV 703 RV 704
G-6 G-7 D-1 A-7 D-4 A-4 C-4	IC 301 IC 302 IC 303 IC 304 IC 305 IC 306 IC 307	B-2 D-2 C-1 B-1 A-2 A-1 A-2	IC 714 IC 715 IC 716 IC 717 IC 718 IC 719 IC 720	N-6 P-4 P-5 P-2 P-5 P-4 P-4	L 708 L 713 L 715 L 717 L 718 L 719	P-4 L-5 K-5 P-3 P-3 P-4	RV 704 RV 705 RV 706 RV 707 RV 708 RV 709 RV 710 RV 711
C-3 A-1 A-1 A-2 A-1 D-1 C-2 B-6 C-7 C-7	IC 309 IC 310 IC 311 IC 312 IC 313 IC 401 IC 402 IC 403 IC 404 IC 405	A-2 A-2 D-2 C-1 B-3 A-6 B-6 A-7 B-7 D-6	IC 722 IC 723 IC 724 IC 725 IC 726 IC 727 IC 728 IC 729 *IC 800 IC 801	M-5 L-5 L-4 R-2 P-6 R-3 R-6 P-3 R-4	*Q 101 *Q 102 *Q 103 *Q 104 *Q 200 *Q 201 *Q 202 *Q 203 *Q 301 *Q 302	B-4 B-3 C-4 A-4 A-4 B-5 B-4 C-4 A-3 B-3	S 700 TP 100 TP 101 TP 200 TP 201 TP 300 TP 301 TP 302 TP 303 TP 304
D-7 A-7 H-4	IC 407 IC 408 IC 409	C-6 C-7 C-6	LV 300 LV 400	A-1 C-7	*Q 305 *Q 306 *Q 307	B-3 D-2 D-1	TP 305 TP 400 TP 401
K-2 F-3 F-5 K-2 K-2 K-1 K-6 P-6 P-5 R-3	IC 411 IC 412 IC 413 IC 414 IC 415 IC 500 IC 501 IC 502 IC 503 IC 504 IC 505	C-6 A-6 A-6 A-5 B-4 G-5 G-2 H-2 J-7	L 1 L 2 L 3 L 4 L 5 L 100 L 101 L 102 L 105 L 106 L 107 L 200	F-7 K-7 F-7 K-7 C-3 B-4 C-4 C-4 C-3 G-1	*Q 401 *Q 402 *Q 404 *Q 405 *Q 406 *Q 407 *Q 408 *Q 428 *Q 500 *Q 501 *Q 502	D-5 B-5 B-5 B-6 B-5 A-6 D-7 A-6 L-3 L-2 M-2	TP 402 TP 403 TP 500 TP 501 TP 502 TP 700 TP 701 TP 702 TP 703 TP 704 TP 705
A-3 A-4 B-1 A-7 L-1 L-2 P-6 R-6 R-4	IC 507 IC 508 IC 509 IC 510 IC 511 IC 512 IC 513 IC 514 IC 515	J-4 J-5 P-2 N-2 N-3 L-3 L-3	L 201 L 202 L 205 L 206 L 300 L 301 L 302 L 303 L 304	B-4 C-5 C-4 H-6 A-3 B-3 A-3 A-2	*Q 600 *Q 601 *Q 602 *Q 700 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706 *Q 707	J-2 J-2 J-1 P-7 R-6 R-6 R-6 N-7 R-6	
L-2 M-2 N-2 J-3 L-5	IC 517 IC 518 IC 601 IC 602 IC 603	F-3 F-4 J-2 K-3 J-2	L 306 L 307 L 308 L 400 L 401	B-1 B-1 A-3 D-5 C-5	*Q 708 *Q 709 *Q 714 *Q 715 *Q 717 *Q 718	P-6 R-2 L-5 L-5 R-7	
D-3 K-7 D-2 D-5 D-6 G-6 G-7 D-1 A-7 B-4 B-4	IC 607 IC 608 IC 609 IC 610 IC 611 IC 612 IC 613 IC 700 IC 701 IC 702 IC 703	J-2 J-1 J-2 J-1 E-2 F-2 P-6 M-6 P-1 P-2	L 403 L 404 L 405 L 406 L 407 L 408 L 409 L 410 L 503 L 504 L 506	B-5 B-5 D-5 D-7 B-7 D-6 C-5 C-5 M-3 M-3 L-2	*Q 719 RV 100 RV 200 RV 301 RV 302 RV 303 RV 307 RV 400 RV 401 RV 402	R-7 A-4 A-4 C-3 A-2 D-3 C-3 A-5 A-5 D-6	
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103 C-4 M-7 IC 104 D-4 N-7 IC 105 D-4 D-7 IC 200 B-4 IC 201 B-4 R-4 IC 203 C-5 IC 300 D-2 IC 300 D-2 IC 300 D-2 G-6 IC 301 B-2 G-7 IC 302 D-2 D-1 IC 303 C-1 D-4 IC 305 A-2 A-4 IC 305 A-2 A-4 IC 306 A-1 IC 310 A-2 A-1 IC 311 D-2 A-1 IC 313 B-3 IC 310 A-2 A-1 IC 311 B-3 IC 310 A-2 A-1 IC 313 B-3 D-1 IC 404 B-7 C-7 IC 405 D-6 IC 406 D-6 D-7 IC 407 C-6 A-7 IC 408 C-7 H-4 IC 409 C-6 K-2 IC 410 C-6 F-3 IC 411 A-6 F-5 IC 412 C-6 F-3 IC 415 B-5 IC 412 C-6 F-3 IC 415 B-5 IC 412 C-6 F-3 IC 501 G-3 R-6 IC 502 G-5 P-6 IC 503 G-2 P-6 IC 503 G-2 P-6 IC 504 H-2 IC 507 J-4 A-4 IC 508 J-5 IC 507 J-4 A-4 IC 508 J-7 IC 507 J-4 A-4 IC 508 J-5 IC 505 H-7 IC 506 J-7 IC 507 J-4 A-4 IC 508 J-5 IC 507 J-4 A-4 IC 508 J-5 IC 507 J-4 A-4 IC 508 J-5 IC 507 J-4 IC 507 J-4 IC 508 J-7 IC 507 J-4 IC 507 J-2 IC 517 F-3 IC 507 J-4 IC 507 J-2 IC 517 F-3 IC 507 J-2 IC 518 F-4 IC 507 J-2 IC 607 J-2 IC 700 P-6	M-1 IC 103 C-4 IC 704 M-7 IC 104 D-4 IC 705 N-7 IC 105 D-4 IC 707 D-7 IC 200 B-4 IC 709 IC 201 B-4 IC 710 R-4 IC 203 C-5 IC 711 R-5 IC 204 D-5 IC 712 IC 300 D-2 IC 713 G-6 IC 301 B-2 IC 714 G-7 IC 302 D-2 IC 715 D-1 IC 303 C-1 IC 716 A-7 IC 304 B-1 IC 717 D-4 IC 305 A-2 IC 718 A-4 IC 306 A-1 IC 719 C-4 IC 307 A-2 IC 720 C-2 IC 308 B-1 IC 721 C-3 IC 309 A-2 IC 722 A-1 IC 310 A-2 IC 722 A-1 IC 311 D-2 IC 724 A-2 IC 312 C-1 IC 725 A-1 IC 313 B-3 IC 726 D-1 IC 401 A-6 IC 727 C-2 IC 404 B-6 IC 728 B-6 IC 403 A-7 IC 729 C-7 IC 404 B-7 *IC 800 C-7 IC 404 B-7 *IC 800 D-7 IC 407 C-6 A-7 IC 408 C-7 LV 300 H-4 IC 409 C-6 LV 400 K-2 IC 411 A-6 L 1 F-5 IC 412 C-6 L 2 K-3 IC 413 A-6 L 1 R-6 IC 502 G-5 L 102 P-6 IC 503 G-2 L 105 P-6 IC 504 H-2 L 106 R-3 IC 505 H-7 L 200 A-4 IC 506 J-7 L 200 A-4 IC 507 J-4 L 201 A-4 IC 508 J-5 L 202 B-1 IC 507 J-4 L 201 A-4 IC 508 J-5 L 304 R-4 IC 508 J-5 L 304 R-4 IC 508 J-5 L 305 R-6 IC 514 L-3 L 305 L-2 IC 517 F-3 L 306 R-4 IC 507 J-4 L 201 A-4 IC 508 J-5 L 302 D-5 IC 600 J-2 L 403 R-6 IC 514 L-3 L 305 R-7 IC 608 J-1 L 400 IC 506 J-7 L 200 A-7 IC 518 F-4 L 307 R-6 IC 511 J-1 L 406 D-6 IC 601 J-2 L 308 D-1 IC 601 J-2 L 400 D-6 IC 601 J-2 L 400 D-7 IC 601 J-2 L 400 D-6 IC 601 J-2 L 400 D-7 IC 601 J-2 L 400 D-6 IC 601 J-2 L 400 D-7 IC 601 J-2 L 400 D-6 IC 601 J-2 L 400 D-7 IC 601 J-2 L 400 D-1 IC 601 J-2 L 4	M-1 IC 103 C-4 IC 704 N-6 M-7 IC 104 D-4 IC 705 R-2 N-7 IC 105 D-4 IC 707 P-6 D-7 IC 200 B-4 IC 709 R-3 IC 201 B-4 IC 710 N-6 R-4 IC 203 C-5 IC 711 P-5 R-5 IC 204 D-5 IC 711 M-6 IC 300 D-2 IC 713 L-6 G-6 IC 301 B-2 IC 714 N-6 G-7 IC 302 D-2 IC 715 P-4 D-1 IC 303 C-1 IC 716 P-5 A-7 IC 303 C-1 IC 717 P-2 D-4 IC 305 A-2 IC 718 P-5 A-7 IC 306 A-1 IC 717 P-2 D-4 IC 307 A-2 IC 720 P-4 C-2 IC 308 B-1 IC 721 P-4 C-3 IC 309 A-2 IC 722 M-5 A-1 IC 310 A-2 IC 723 L-5 A-1 IC 310 A-2 IC 723 L-5 A-1 IC 311 D-2 IC 724 L-5 A-2 IC 312 C-1 IC 725 L-4 A-1 IC 313 B-3 IC 726 R-2 D-1 IC 401 A-6 IC 727 P-6 C-2 IC 402 B-6 IC 727 R-6 C-7 IC 405 D-6 IC 801 R-4 D-6 IC 406 D-6 IC 801 R-4 D-6 IC 407 C-6 A-7 IC 408 C-7 IC 409 C-6 C-7 IC 407 C-6 A-7 IC 408 C-7 IC 409 C-6 C-7 IC 407 C-6 A-7 IC 408 C-7 IC 409 C-6 C-7 IC 409 C-6 IC 801 R-4 IC 411 A-6 IC 727 R-6 IC 407 C-6 A-7 IC 408 C-7 IC 409 C-7 R-7 IC 409 C-6 IC 801 R-4 R-8 IC 500 G-3 IC 101 B-4 R-9-6 IC 500 G-3 IC 101 B-4 R-6 IC 500 G-5 IC 801 B-4 R-7 IC 500 G-4 IC 801 B-4 R-8 IC 500 G-5 IC 801 B-4 R-9-6 IC 500 G-5 IC 801 B-3 R-9-6 IC 511 IC 72 IC 806 B-1 R-9-7 IC 500 G-5 IC 801 B-3 R-9-6 IC 511 IC 72 IC 800 G-5 R-0 IC 500 G-2 IC 800 B-1 R-0 IC 500 G-2 IC 800 B-1 R-0 IC 500 G-5 IC 801 B-3 R-0 IC 500 G-7 IC 800 G-5 R-0 IC 500 G-7 IC 800 G-7 R-0 IC 600 G-7 IC 800 G-7 R-0 IC 600 G-7 IC 800 G-7 R-0 IC 600 G-7 IC 800 G-7 R-0 IC	M-1 IC 103 C-4 IC 704 N-6 L 508 M-7 IC 104 D-4 IC 705 R-2 L 700 IC 201 B-4 IC 705 R-2 L 700 IC 201 B-4 IC 707 P-6 L 701 IC 202 B-4 IC 710 N-6 L 703 IC 201 B-5 IC 7112 M-6 L 705 IC 712 M-6 L 705 IC 713 L-6 L 706 IC 713 L-6 L 706 IC 201 B-1 IC 714 N-6 L 708 IC 201 IC 713 L-6 L 708 IC 201 IC 713 L-6 L 708 IC 201 IC 715 IC 201 IC 716 IC 201 IC 716 IC 201 IC 717 IC 201 IC 717 IC 201 IC 718 IC 201 IC 718 IC 201 IC 718 IC 201 IC 719 IC 201 IC 201 IC 719 IC 201	M-1

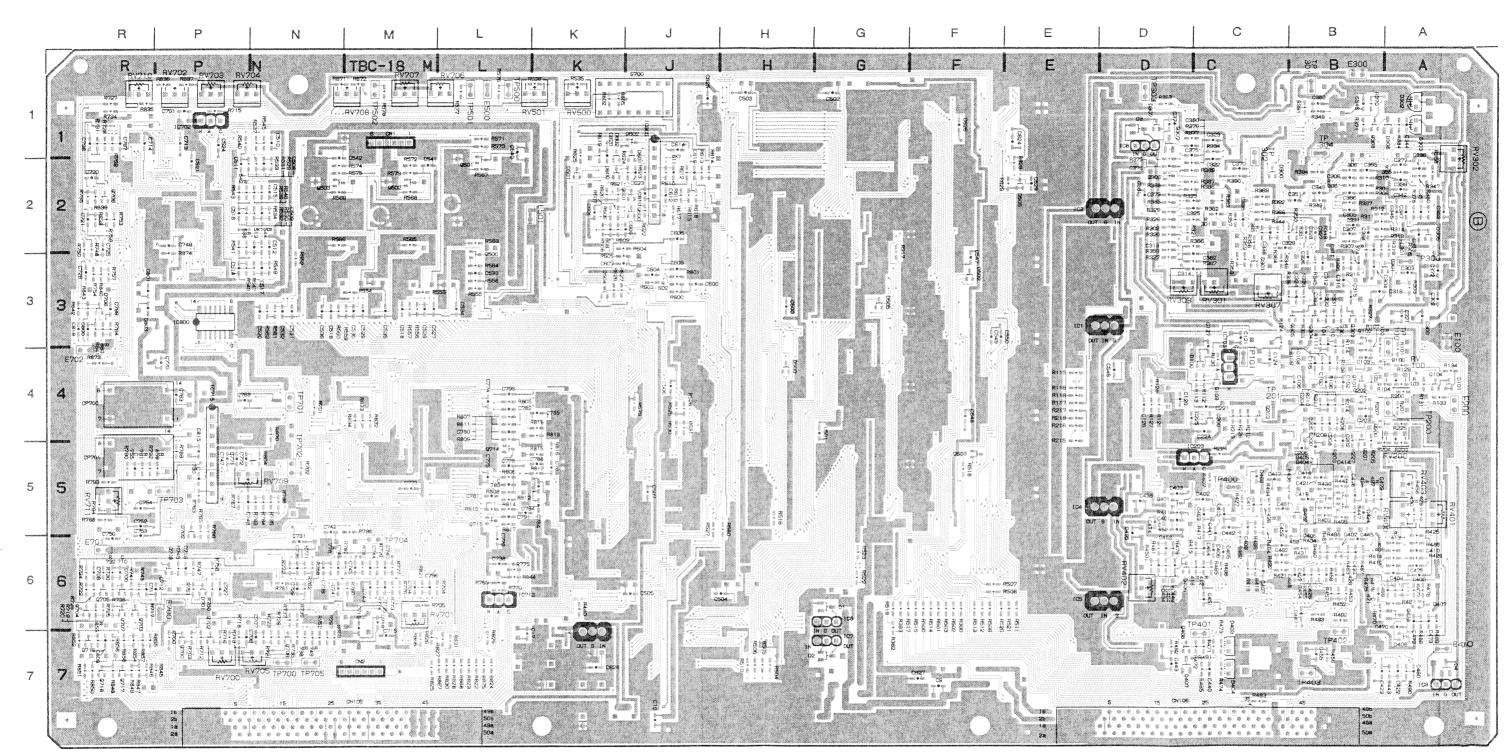


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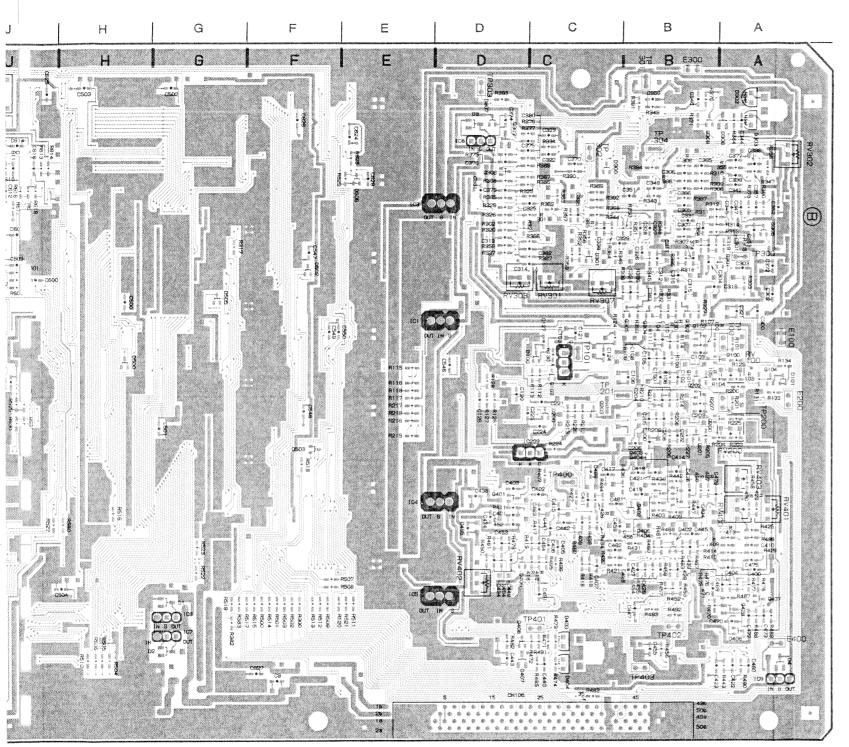
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TBC-18P; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-13 BSIDE

TBC-18P



TBC-18P 1-640-033-13 B SIDE

TBC-18P (1-640-033-13)

180-189 (1			_				
CN 1 CN 2 CN 105 CN 106	M-1 M-7 N-7 D-7	IC 103 IC 104 IC 105 IC 200 IC 201	C-4 D-4 D-4 B-4 B-4	IC 704 IC 705 IC 707 IC 709 IC 710	N-6 R-2 P-6 R-3 N-6	L 508 L 700 L 701 L 702 L 703	N-1 P-6 R-6 M-7 M-6
CP 700 CP 701	R-4 R-5	IC 203 IC 204	C-5 D-5	IC 711 IC 712	P-5 M-6	L 704 L 705	P-5 M-7
*D 1 *D 2 *D 3 *D 4 *D 100 *D 101 *D 200 *D 300 *D 402 *D 403 *D 404 *D 406 *D 407 *D 500 *D 600 *D 600 *D 700 *D 700 *D 700 *D 700 *D 700 *D 700	G-6 G-7 D-4 A-4 C-2 A-1 D-2 B-7 D-7 H-4 F-5 K-2 F-5 K-2 F-5 F-5 R-6 F-7 R-6 F-7 R-6 F-7 R-6 F-7 R-6 F-7 R-6 F-7 R-7 R-7 R-7 R-7 R-7 R-7 R-7 R-7 R-7 R	IC 300 IC 301 IC 302 IC 303 IC 305 IC 306 IC 307 IC 308 IC 310 IC 311 IC 312 IC 401 IC 403 IC 404 IC 405 IC 407 IC 408 IC 411 IC 411 IC 412 IC 411 IC 412 IC 411 IC 412 IC 413 IC 414 IC 415 IC 500 IC 501 IC 505	D-8-2-2-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1	IC 713 IC 714 IC 715 IC 716 IC 717 IC 718 IC 719 IC 720 IC 721 IC 722 IC 723 IC 724 IC 725 IC 726 IC 727 IC 728 IC 729 *IC 800 IC 801 IC 802 LV 300 LV 400 L1 L 2 L 3 L 4 L 5 L 100 L 101 L 102 L 105 L 106 L 107	L-6 6-6-4-5-2-5-4-4-5-5-5-4-2-6-3-6-3-4-5-1-7 P-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R	L 706 L 708 L 713 L 715 L 717 L 718 L 719 *Q 100 *Q 101 *Q 102 *Q 103 *Q 104 *Q 200 *Q 202 *Q 203 *Q 304 *Q 304 *Q 304 *Q 306 *Q 306 *Q 307 *Q 308 *Q 401 *Q 404 *Q 405 *Q 408 *Q 408 *Q 408 *Q 408 *Q 501 *Q 502	M-4 P-4 L-5-5-3-3-4 A-4-3-3-4-4-4-3-3-3-3-2-1-1-5-5-5-6-5-6-7-6-3-2-2 M-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
E100 E200 E300 E400 E500 E501 E700 E701 E702	A-3 A-4 B-1 A-7 L-1 L-2 P-6 R-6 R-4	IC 506 IC 507 IC 508 IC 509 IC 511 IC 512 IC 513 IC 514 IC 515	J-7 J-4 J-5 P-2 N-2 N-3 L-3 L-3	L 200 L 201 L 202 L 205 L 206 L 300 L 301 L 302 L 303 L 304	C-5 B-4 C-5 C-4 H-6 A-3 B-3 A-3	*Q 503 *Q 600 *Q 601 *Q 602 *Q 700 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706	N-2 J-2 J-2 J-1 P-7 P-7 R-6 R-6 N-7
FL 500 FL 501 FL 502 FL 600 FL 700	L-2 M-2 N-2 J-3 L-5	IC 516 IC 517 IC 518 IC 601 IC 602 IC 603 IC 605	N-3 F-3 F-4 J-2 K-3 J-2 J-1	L 305 L 306 L 307 L 308 L 400 L 401 L 402	A-2 B-1 B-1 A-3 D-5 C-5 B-5	*Q 707 *Q 708 *Q 709 *Q 714 *Q 715 *Q 717 *Q 718	R-6 P-6 R-2 L-5 L-5 R-7 R-7
IC 1 IC 2 IC 3	D-3 K-7 D-2	IC 608 IC 609	J-2 J-1 J-2	L 403 L 404 L 405	B-5 B-5 D-5	*Q 719 RV 100	R-7 A-4
IC 4 IC 5 IC 6 IC 7 IC 8 IC 9 IC 100 IC 102	D-5 D-6 G-6 G-7 D-1 A-7 B-4 B-4	IC 610 IC 611 IC 612 IC 613 IC 700 IC 701 IC 702 IC 703	J-1 J-1 E-2 F-2 P-6 M-6 P-1 P-2	L 406 L 407 L 408 L 409 L 410 L 503 L 504 L 506	D-7 B-7 D-6 C-5 C-5 M-3 M-3 L-2	RV 200 RV 301 RV 302 RV 303 RV 307 RV 400 RV 401 RV 402	A-4 C-3 A-2 D-3 C-3 A-5 A-5 D-6

RV 403 RV 500 RV 501 RV 701 RV 701 RV 702 RV 703 RV 704 RV 705 RV 706 RV 707 RV 707 RV 709 RV 710 RV 711

S 700

TP 100
TP 101
TP 200
TP 201
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TP 302
TP 303
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TP 305
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TP 402
TP 403
TP 500
TP 501
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TP 705

A-5 K-1 L-1 P-7 M-6 P-1 P-1 N-7 M-1 M-1 P-5 R-1 R-5

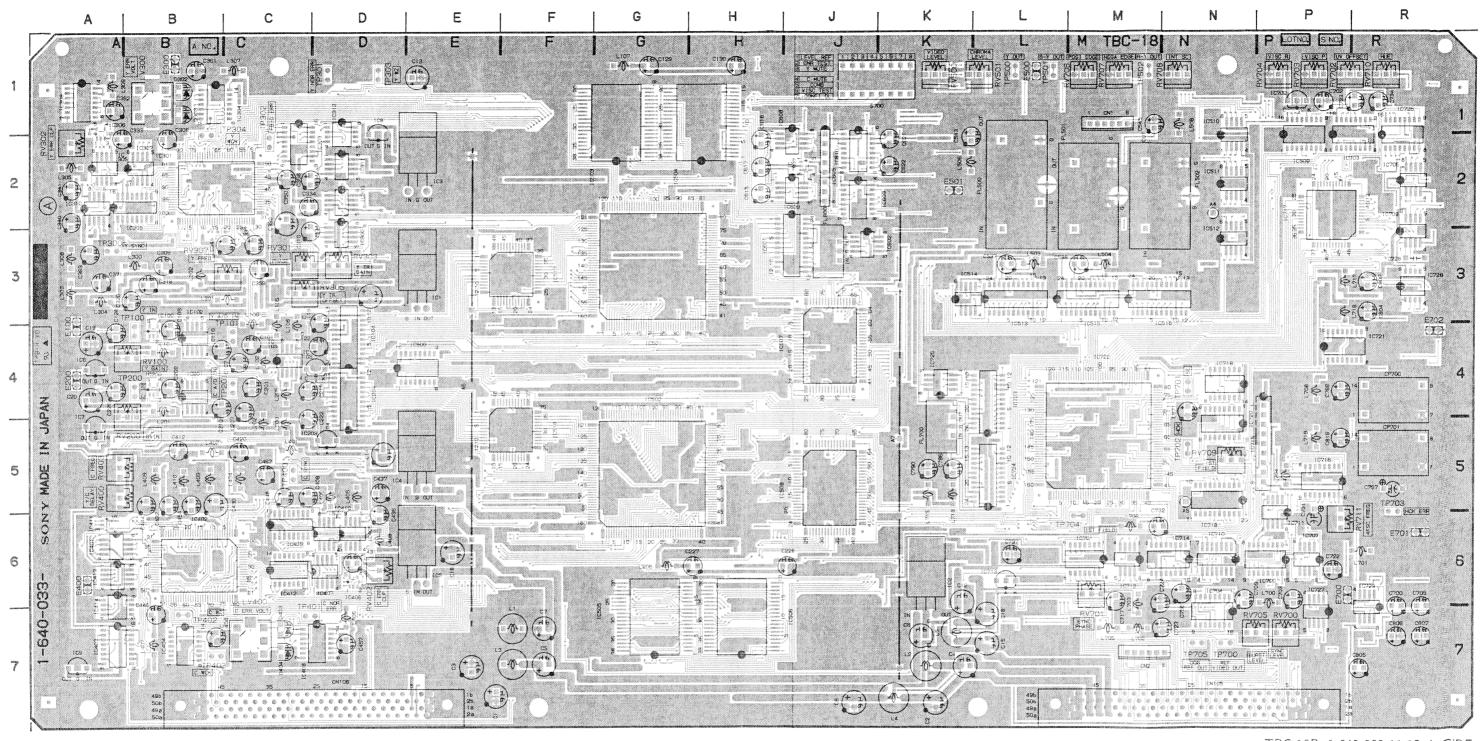
J-1

A-4 C-4 B-4 A-3 B-1 C-2 D-1 B-1 D-5 C-7 B-7 L-1 N-7 N-4 N-5 N-6 N-7

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M-7 N-7	IC 200 IC 201 IC 203 IC 204	B-4 B-4 D-5 D-5	IC 715 IC 716 IC 718 IC 719	P-4 P-5 N-5 N-4	L 719 *Q 100 *Q 101	P-4 B-4 B-4	S 700 TP 100 TP 101	J-1 B-4 C-4
R-4 R-5	IC 300 IC 301 IC 302	D-2 B-2 D-2	IC 720 IC 721 IC 722	N-4 P-4 M-5	*Q 102 *Q 103 *Q 200	B-3 B-4 B-4	TP 200 TP 201 TP 300	B-4 C-4 A-3 D-1
A-4 A-4 D-1 A-7 D-4	IC 304 IC 305 IC 306 IC 307 IC 308	B-1 A-2 A-1 B-2 A-1	IC 724 IC 725 IC 726 IC 727 IC 728	L-5 K-4 R-2 P-6 R-3	*Q 202 *Q 203 *Q 301 *Q 302 *Q 304	B-4 B-4 B-3 B-3 B-3	TP 302 TP 303 TP 304 TP 400 TP 401	C-2 D-1 B-1 C-5 C-7 B-7
C-2 C-3 B-1	IC 310 IC 311 IC 312	A-2 D-2 D-1	LV 300 LV 400	B-1 C-7	*Q 306 *Q 307 *Q 401	D-2 D-1 D-5	TP 403 TP 500 TP 501	B-7 L-1 L-1 M-1
A-2 A-1 D-1 B-6 C-7 C-7 G-2 E-3 J-2 J-2 R-6 P-6 R-3 A-4	IC 402 IC 403 IC 404 IC 405 IC 406 IC 407 IC 408 IC 409 IC 410 IC 411 IC 412 IC 413 IC 414 IC 500 IC 501 IC 502 IC 503 IC 504 IC 505 IC 506 IC 507 IC 508 IC 509	B-6 A-7 D-0-6 C-7-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-6 C-0-7 C-0-6 C-0-7 C-0-6 C-0-7 C-0-6 C-0-7 C-0-6 C-0-6 C-0-7 C-0-6 C-0-6 C-0-6 C-0-6 C-0-7 C-0-6 C-0 C-0 C-0 C-0 C-0 C-0 C-0 C-0 C-0 C-0	L 1 L 2 L 3 L 4 L 5 L 100 L 101 L 102 L 105 L 106 L 107 L 200 L 201 L 202 L 205 L 206 L 300 L 301 L 302 L 303 L 304 L 306 L 307	F-7 K-7 K-7 K-7 K-3 B-4 C-4 C-4 G-5 B-3 G-3 G-3 G-3 A-3 A-1	*Q 404 *Q 405 *Q 407 *Q 408 *Q 500 *Q 501 *Q 502 *Q 503 *Q 601 *Q 602 *Q 700 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706 *Q 707 *Q 708 *Q 709 *Q 714 *Q 715	C-6 C-6 C-5 A-6 B-3 L-2 M-2 J-2 J-7 R-6 6 R-7 6 R-7 R-6 P-R-5 L-5	TP 502 TP 700 TP 701 TP 702 TP 703 TP 704 TP 705	M-1 N-7 N-4 N-5 R-5 M-6 N-7
B-1 A-6 L-1 K-2 P-6 R-6 R-4	IC 511 IC 512 IC 513 IC 514 IC 515 IC 516 IC 517	N-2 N-3 L-3 K-3 L-3 M-3 F-3	L 308 L 400 L 401 L 402 L 403 L 404 L 405	A-3 D-5 C-5 B-5 B-5 C-5 D-5	*Q 718 *Q 719 RV 100 RV 200 RV 301 RV 302	R-7 R-7 B-4 B-4 C-3 A-2		
L-2 M-2 M-2 J-3 K-5	IC 518 IC 601 IC 602 IC 603 IC 605 IC 607	F-5 H-2 J-3 J-2 J-1 J-2	L 406 L 407 L 408 L 409 L 410 L 503	D-7 B-7 D-6 B-5 B-5 L-3	RV 303 RV 305 RV 307 RV 400 RV 402 RV 403	D-3 C-3 C-3 A-5 D-6 A-5		
E-3 K-7 E-2 E-5 E-6 A-4 A-5 D-1 A-7 B-4 D-4 D-4 C-4	IC 608 IC 609 IC 610 IC 700 IC 701 IC 702 IC 704 IC 705 IC 707 IC 709 IC 710 IC 711 IC 712 IC 713 IC 714	H-1 H-2 J-1 P-6 M-6 P-1 N-2 P-6 R-3 N-6 P-5 M-6 L-6	L 504 L 506 L 508 L 700 L 701 L 702 L 703 L 704 L 705 L 706 L 708 L 713 L 715 L 717	KI-3 K-2 R-6 R-6 M-7 M-6 P-5 M-7 M-6 P-4 K-5 K-3 P-3	RV 500 RV 501 RV 700 RV 701 RV 702 RV 703 RV 705 RV 706 RV 707 RV 708 RV 709 RV 710 RV 711	N-1 P-7 M-6 P-1 P-1 P-7 M-1 M-1 N-5 R-1 P-6		
	ND RR AADADDCCBBAADBCCDCAGKFEKJJJJRPPR AABALKPRR LMMJK EKEEEAADABBDDDCCBBAADBCCDCAGKFEKJJJJRPPR AABALKPRR LMMJK EKEEEAADABBDDD	M-7 IC 201 N-7 IC 203 D-7 IC 204 IC 303 D-7 IC 204 IC 300 R-4 IC 301 R-5 IC 302 IC 303 A-4 IC 304 A-4 IC 305 D-1 IC 306 A-7 IC 307 D-4 IC 308 D-5 IC 309 C-2 IC 310 C-3 IC 311 B-1 IC 401 A-2 IC 402 A-1 IC 403 D-1 IC 404 B-6 IC 405 C-7 IC 406 C-7 IC 407 D-6 IC 408 C-7 IC 409 A-7 IC 410 G-4 IC 411 K-2 IC 412 F-3 IC 414 K-3 IC 500 J-2 IC 500 A-4 IC 510 B-1 IC 511 A-6 IC 505 P-6 IC 506 R-3 IC 507 IC 508 A-4 IC 510 B-1 IC 511 A-6 IC 515 R-6 IC 516 R-4 IC 517 IC 508 A-4 IC 510 B-1 IC 511 A-6 IC 515 R-6 IC 506 R-3 IC 507 IC 508 A-4 IC 510 B-1 IC 511 A-6 IC 515 R-6 IC 516 R-4 IC 517 IC 518 L-2 IC 603 J-3 IC 605 L-1 IC 515 R-6 IC 516 R-4 IC 517 IC 518 L-2 IC 600 B-1 IC 700 B-4 IC 710 B-4 IC 710 B-4 IC 711 B-4 IC 711 D-4 IC 712 D-4 IC 713	M-7 IC 201 B-4 N-7 IC 203 D-5 D-7 IC 204 D-5 IC 300 D-2 R-4 IC 301 B-2 R-5 IC 302 D-2 IC 303 C-1 R-5 IC 303 C-1 IC 306 A-1 IC 307 B-2 D-1 IC 306 A-1 IC 307 B-2 D-1 IC 308 A-1 D-5 IC 309 A-2 D-4 IC 308 A-1 D-5 IC 309 A-2 IC 310 A-2 C-2 IC 310 A-2 B-1 IC 401 A-6 A-2 IC 402 B-6 A-1 IC 403 A-7 D-1 IC 404 B-7 B-6 IC 405 D-6 C-7 IC 406 D-6 C-7 IC 407 D-6 C-7 IC 407 D-6 C-7 IC 409 C-6 A-7 IC 410 D-6 C-7 IC 410 A-6 K-2 IC 411 A-6 K-2 IC 412 C-6 F-3 IC 413 A-6 K-2 IC 412 C-6 F-3 IC 413 A-6 K-2 IC 501 G-3 J-2 IC 502 G-5 J-2 IC 503 G-2 R-6 IC 505 H-7 R-3 IC 507 J-4 IC 508 J-5 R-6 IC 505 H-7 R-6 IC 506 H-7 R-7 R-8 IC 511 N-2 R-6 IC 515 L-3 R-6 IC 515 L-3 R-6 IC 516 M-3 R-4 IC 517 F-3 IC 518 F-5 IC 607 J-2 IC 608 H-1 IC 518 F-5 IC 609 H-2 R-6 IC 515 L-3 R-6 IC 516 M-3 R-4 IC 517 F-3 IC 518 F-5 IC 601 H-2 R-2 IC 603 J-2 IC 603 J-2 IC 605 J-1 IC 517 F-3 IC 518 F-5 IC 601 H-2 R-2 IC 603 J-2 IC 603 J-2 IC 605 J-1 IC 517 F-3 IC 518 F-5 IC 607 J-2 IC 608 H-1 IC 517 F-3 IC 518 F-5 IC 609 H-2 IC 700 P-6 IC 700 P-6 IC 700 P-6 IC 700 R-3 IC 607 J-2 IC 608 H-1 IC 710 N-6 IC 712 N-6 IC 712 N-6 IC 711 N-6 IC 709 R-3 IC 711 P-5 IC 709 R-3 IC 711 P-5 IC 711 N-6 IC 712 N-6 IC 712 N-6 IC 712 N-6 IC 711 P-5 IC 711 N-6 IC 711 P-5 IC 711 IC 71	M-7	M-7 IC 201 B-4 IC 716 P-5 N-7 IC 203 D-5 IC 718 N-5 D-7 IC 204 D-5 IC 719 N-4 IC 300 D-2 IC 720 N-4 R-4 IC 301 B-2 IC 721 P-4 R-5 IC 302 D-2 IC 722 M-5 IC 303 C-1 IC 723 L-5 A-4 IC 304 B-1 IC 724 L-5 A-4 IC 305 A-2 IC 725 K-4 D-1 IC 306 A-2 IC 727 P-6 A-7 IC 307 B-2 IC 727 P-6 D-4 IC 308 A-1 IC 728 R-3 D-5 IC 309 A-2 IC 729 R-6 C-2 IC 310 A-2 C-3 IC 311 D-2 LV 300 B-1 B-1 IC 312 D-1 LV 400 C-7 B-1 IC 404 B-7 L3 F-7 A-1 IC 403 A-7 L2 K-7 D-1 IC 404 B-7 L3 F-7 B-6 IC 405 D-6 L4 K-7 C-7 IC 406 D-6 L5 K-7 C-7 IC 406 D-6 L5 K-7 C-7 IC 408 C-7 L101 B-4 A-7 IC 411 A-6 L105 C-4 A-7 IC 411 A-6 L105 C-4 A-7 IC 411 A-6 L201 B-4 K-2 IC 412 C-6 L107 G-1 F-3 IC 414 A-6 L201 B-4 K-2 IC 504 H-2 L301 B-3 IC 506 H-7 L302 B-3 IC 507 J-4 L303 A-3 R-3 IC 506 H-7 L303 B-3 R-6 IC 506 H-7 L303 B-3 R-6 IC 506 H-7 L303 B-3 R-6 IC 507 J-4 L304 A-3 IC 500 P-2 L306 A-1 K-2 IC 511 N-2 L306 A-3 R-3 IC 507 J-4 L304 A-3 IC 500 P-2 L306 A-1 R-4 IC 511 N-2 L306 A-3 R-5 IC 513 L-3 L401 B-5 R-6 IC 505 J-5 L306 A-1 R-7 IC 516 M-3 L401 B-5 R-8 IC 507 J-4 L304 A-3 IC 500 P-2 L306 A-1 R-8 IC 507 J-4 L304 A-3 IC 500 P-2 L306 A-1 R-9 IC 505 B-6 IC 515 L-3 L401 B-5 IC 516 M-3 L401 B-5 IC 517 F-3 L405 D-5 IC 518 R-5 IC 510 M-2 L307 B-5 IC 517 F-3 L405 D-5 IC 518 R-5 IC 510 M-3 L400 B-5 IC 516 M-3 L400 B-5 IC 517 P-6 IC 507 P-6 L703 M-6 IC 508 H-1 L504 M-3 IC 500 J-2 L504 M-4 IC 511 N-2 L507 M-7 IC 700 P-6 IC 505 M-7 IC 700 P-6 IC 505 M-7 IC 700 P-6 IC 506 M-7 IC 700 P-6 IC 507 M-7 IC 700 P-6 IC	M-7	M-7 IC 201 B-4 IC 716 P-5	M-7 C 201 B-4 C 716 P-5 N-7 IC 203 D-5 C 718 N-5 *C 100 B-4 TP 100 D-7 IC 204 D-5 C 719 N-4 *C 101 B-4 TP 101 IC 300 D-2 C 720 N-4 *C 102 B-3 TP 200 R-4 IC 301 B-2 C 721 P-4 *C 103 B-4 TP 201 R-5 IC 302 D-2 C 722 M-5 *C 200 B-4 TP 300 IC 303 C-1 C 722 L-5 *C 201 B-5 TP 301 A-4 IC 304 B-1 C 724 L-5 *C 202 B-4 TP 302 A-4 IC 305 A-2 IC 725 K-4 *C 203 B-4 TP 303 D-1 IC 306 A-1 C 726 R-2 *C 301 B-3 TP 400 A-7 IC 307 B-2 IC 727 P-6 *C 302 B-3 TP 400 D-4 IC 308 A-1 C 728 R-3 *C 304 B-3 TP 400 D-5 IC 309 A-2 IC 729 R-6 *C 305 B-3 TP 401 D-5 IC 309 A-2 IC 729 R-6 *C 305 B-3 TP 402 C-2 IC 310 A-2 C 729 R-6 *C 305 B-3 TP 402 C-3 IC 311 D-2 LV 300 B-1 *C 306 D-2 TP 501 B-1 IC 401 A-6 T-7 *C 404 C 68 TP 701 B-1 IC 403 A-7 L 2 K-7 *C 404 C 68 TP 701 B-1 IC 404 B-6 L 1 F-7 *C 404 C 68 TP 701 B-1 IC 404 B-6 L 1 G 7 *C 408 C 68 TP 701 B-1 IC 404 B-6 L 1 G 7 *C 408 C 68 TP 701 B-1 IC 404 B-6 L 1 G 7 *C 408 C 68 TP 701 B-1 IC 404 B-6 L 10 C -7 C 408 C 68 TP 701 B-1 IC 404 B-6 L 10 C -7 C 408 C 68 TP 701 B-1 IC 404 B-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 10 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 100 C -7 C 408 B-6 TP 703 C-7 IC 409 D-6 L 100 C -7 C 408 B-6 TP 703 C-7 IC 409 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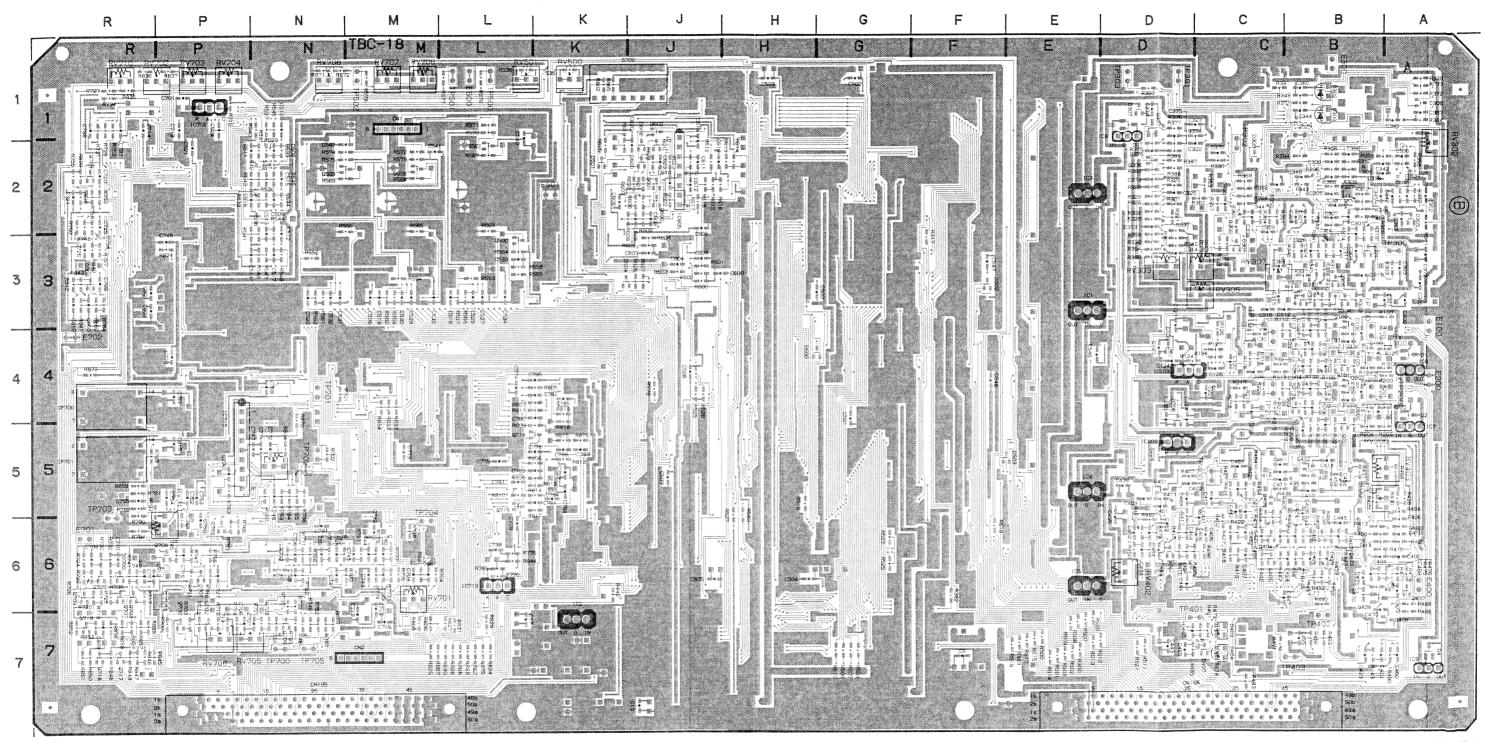
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TBC-18P 1-640-033-11,12 A SIDE

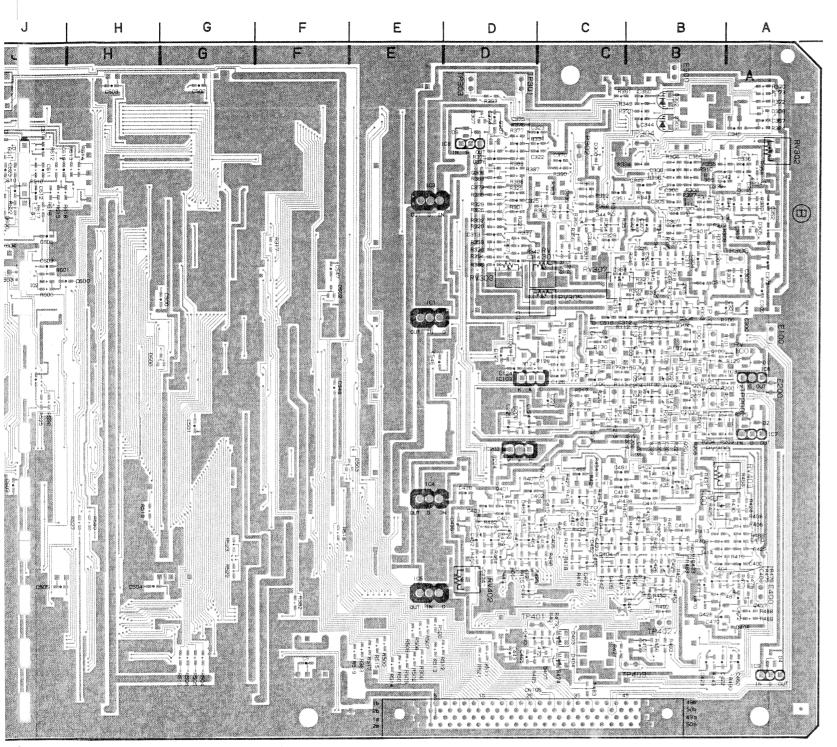
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TBC-18P; TIME BASE CORRECTOR, CTDM (EXPAND)



TBC-18P 1-640-033-11,12 BS IDE

TBC-18P



TBC-18P 1-640-033-11,12 B SIDE

TBC-18P (1	-640-033-	11,12)						
CN 1 CN 2 CN 105 CN 106	M-1 M-7 N-7 D-7	IC 200 IC 201 IC 203 IC 204	B-4 B-4 D-5 D-5	IC 715 IC 716 IC 718 IC 719	P-4 P-5 N-5 N-4	L 719 *Q 100 *Q 101	P-4 B-4 B-4	S 700 TP 100 TP 101
CP 700 CP 701	R-4 R-5	IC 300 IC 301 IC 302 IC 303	D-2 B-2 D-2 C-1	IC 720 IC 721 IC 722 IC 723	N-4 P-4 M-5 L-5	*Q 102 *Q 103 *Q 200 *Q 201	B-3 B-4 B-4 B-5	TP 200 TP 201 TP 300 TP 301
*D 1 *D 2 *D 3 *D 4 *D 100 *D 200 *D 300 *D 300 *D 301 *D 302 *D 303 *D 305 **D 306 **D 402 *D 403 *D 404 *D 406 **D 407 **D 408 **D 501 **D 502 **D 503 **D 504 **D 600 **D 601 **D 602	A-4 A-1 D-17 A-10-5 C-23 B-11 B-19 C-19 C-19 C-19 C-19 C-19 C-19 C-19 C	IC 303 IC 304 IC 305 IC 306 IC 307 IC 308 IC 309 IC 310 IC 311 IC 312 IC 401 IC 402 IC 403 IC 404 IC 405 IC 406 IC 407 IC 408 IC 409 IC 411 IC 412 IC 413 IC 414 IC 500 IC 501 IC 502 IC 503	UB-12 B-21 B-21 B-21 B-21 B-21 B-35 B-35 B-35 B-35 B-35 B-35 B-35 B-35	LC 723 IC 724 IC 725 IC 726 IC 727 IC 728 IC 729 LV 300 LV 400 L 1 L 2 L 3 L 4 L 5 L 100 L 101 L 102 L 105 L 106 L 107 L 200 L 201 L 202 L 205 L 206 L 300	L-5 L-5.4.2.6.3.6 B-7 F-7.7.7.3.4.4.4.5.4.6.3 E-8.3.6 B-1.7 F-7.7.7.3.4.4.4.6.5.4.6.3	*Q 201 *Q 202 *Q 301 *Q 301 *Q 305 *Q 306 *Q 306 *Q 401 *Q 402 *Q 404 *Q 405 *Q 407 *Q 408 *Q 500 *Q 501 *Q 502 *Q 601 *Q 602 *Q 702 *Q 702 *Q 703 *Q 704 *Q 705	B-4 B-4 B-3 B-3 B-3 B-3 B-1 D-1 D-5 D-6 C-6 C-6 C-6 B-3 2 2 2 2 2 1 7 7 7 6 6 6 6 6 7 7 7 7 7 8 7 8 7 8 7 8	TP 301 TP 302 TP 303 TP 304 TP 400 TP 401 TP 402 TP 403 TP 500 TP 501 TP 502 TP 700 TP 701 TP 702 TP 703 TP 703 TP 705
*D 700 *D 701 *D 702 *D 706 E100 E200 E300 E400 E500	R-6 P-6 P-6 R-3 A-4 A-4 B-1 A-6 L-1	IC 504 IC 505 IC 506 IC 507 IC 508 IC 509 IC 510 IC 511 IC 512 IC 513	H-2 H-7 J-4 J-5 P-2 N-2 N-3 L-3	L 301 L 302 L 303 L 304 L 305 L 306 L 307 L 308 L 400 L 401	C-3 B-3 A-3 A-2 A-1 C-1 A-3 D-5 C-5	*Q 706. *Q 707 *Q 708 *Q 709 *Q 714 *Q 715 *Q 717 *Q 718 *Q 719	N-7 R-6 P-6 R-2 K-5 L-5 R-7 R-7	
E501 E700 E701 E702	K-2 P-6 R-6 R-4	IC 514 IC 515 IC 516 IC 517	K-3 L-3 M-3 F-3	L 402 L 403 L 404 L 405	B-5 B-5 C-5 D-5	RV 100 RV 200 RV 301 RV 302	B-4 B-4 C-3 A-2	
FL 500 FL 501 FL 502 FL 600 FL 700	L-2 M-2 M-2 J-3 K-5	IC 518 IC 601 IC 602 IC 603 IC 605 IC 607	F-5 H-2 J-3 J-2 J-1 J-2	L 406 L 407 L 408 L 409 L 410 L 503	D-7 B-7 D-6 B-5 B-5 L-3	RV 303 RV 305 RV 307 RV 400 RV 402 RV 403	D-3 C-3 C-3 A-5 D-6 A-5	
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 9 IC 100 IC 102 IC 103 IC 104 IC 105	E-3 K-7 E-2 E-5 E-6 A-4 A-5 D-1 A-7 B-4 B-4 D-4 D-4 C-4	IC 608 IC 609 IC 610 IC 700 IC 701 IC 702 IC 704 IC 705 IC 707 IC 709 IC 710 IC 711 IC 712 IC 713 IC 714	H-1 H-2 J-16 P-16 P-16 R-26 R-5 N-5 M-6 L-6	L 504 L 506 L 508 L 700 L 701 L 702 L 703 L 705 L 706 L 708 L 713 L 715 L 717	M-3 K-2 N-1 P-6 R-7 M-6 P-5 M-7 M-6 P-4 K-5 P-3	RV 500 RV 501 RV 700 RV 701 RV 702 RV 703 RV 704 RV 705 RV 706 RV 707 RV 708 RV 709 RV 710 RV 711	K-1 L-1 P-7 M-6 P-1 P-1 P-1 P-7 M-1 N-1 N-5 R-1 P-6	

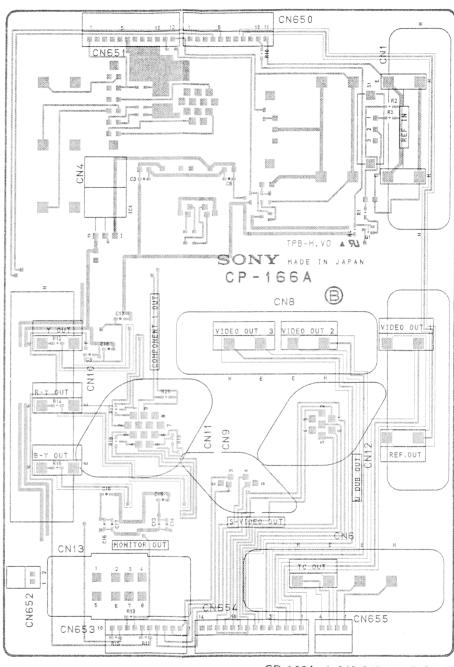
J-1

B-4 C-4 B-4 C-3 D-1 C-2 D-1 B-1 C-5 C-7 B-7 L-1 L-1 N-7 N-4 N-5 R-6 N-7

Serial No.(EK); 10001 to 14585 Serial No.(UC); 10001 to 10010 CP-166A

CP-166A

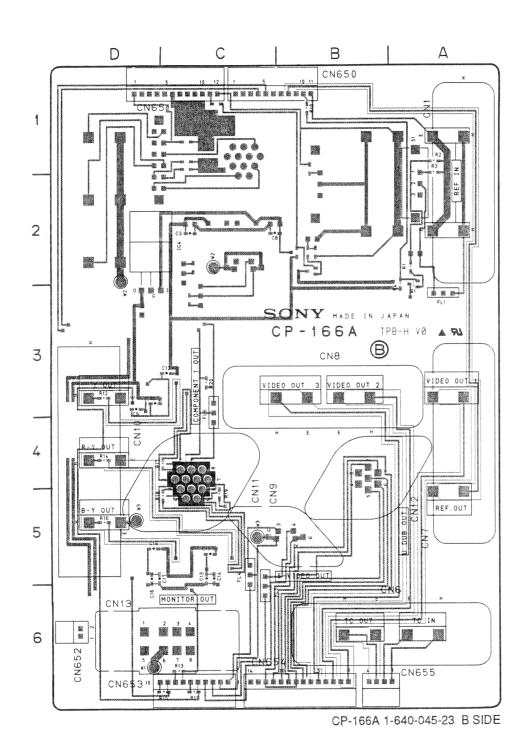
CP-166A; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER

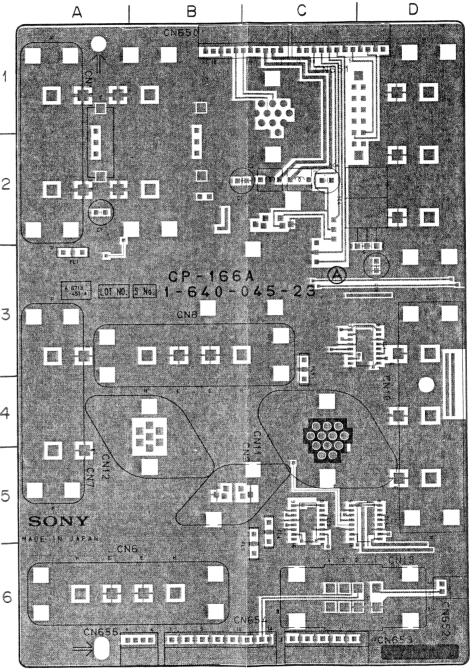


CP-166A 1-640-045-21 B SIDE

CP-166A; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER

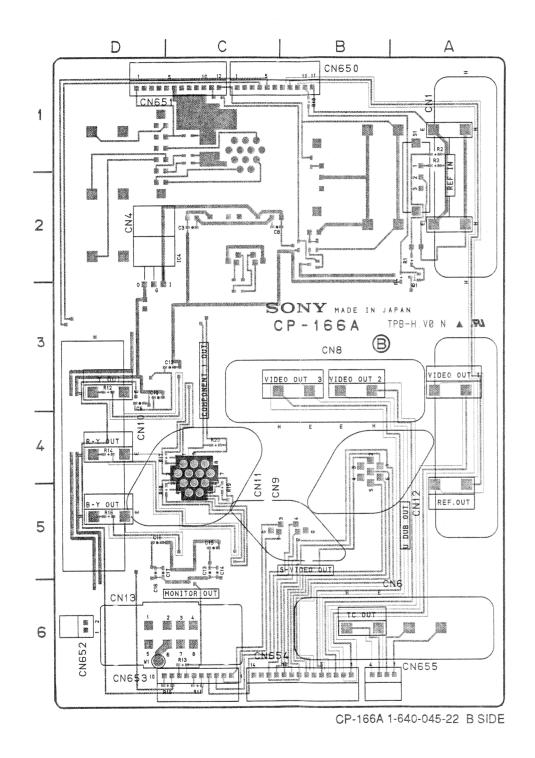
CP-166A (1-	640-045-23
CN 11	D-6 C-6 B-6
IC 1 IC 2 IC 3 IC 4	D-3 C-5 D-5 D-2
L 1 L 2	C-2 C-2
*Q1	A-3
S 1	B-1
*: B SIDE	

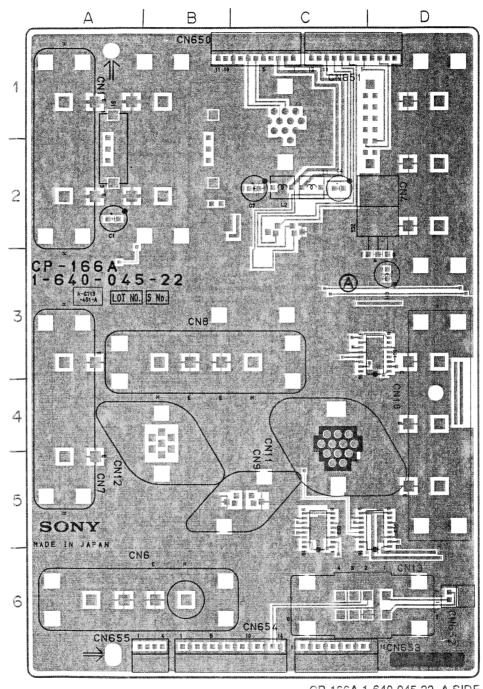




CP-166A 1-640-045-23 A SIDE

CP-166A; VIDEO INPUT/OUTPUT CONNECTOR, COMPONENT OUT DRIVER





CP-166A (1-640-045-22)

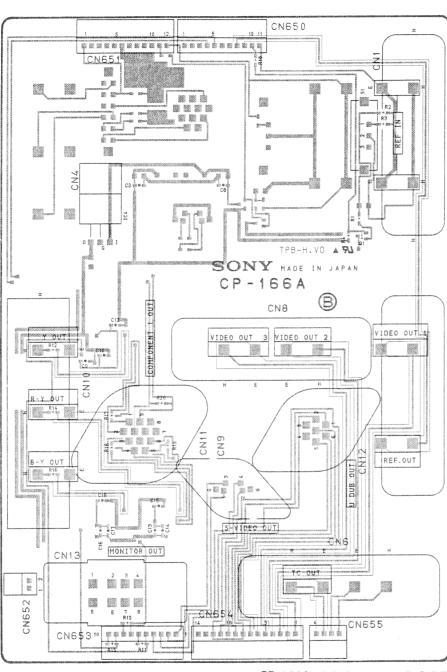
01 10071(1	0 ,0 0 ,0 2
CN 11 CN 12 CN 13 CN 650 CN 651 CN 652 CN 653 CN 654	A-6 A-5 B-5 C-4 C-4 A-5 D-6 B-1 C-6 D-6
IG 2	D-3 C-5 D-5 C-2
L 1 L 2	C-2 C-2
*Q1	A-3
S 1	A-1
* : B SIDE	

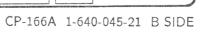
CP-166A 1-640-045-22 A SIDE

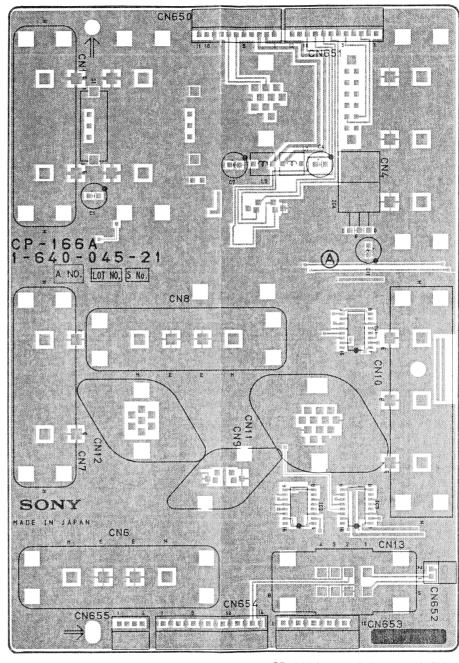
R. ER

;P-166A

CP-166A (1-640-045-21) CN 1 CN 2 CN 3 CN 5 CN 7 CN 7 CN 8 CN 11 CN 6551 CN 6551 CN 6552 CN 6554 CN 6555 B-2 C-1 D-16 A-43 B-54 D-4 B-61 C-16 B-66 B-66 IC 1 IC 2 IC 3 IC 4 D-3 C-5 D-5 C-2 L 1 L 2 C-2 C-2 *Q1 *Q2 A-3 B-2 S 1 B-1 S 2 S 3 B-2 D-2 * : B SIDE



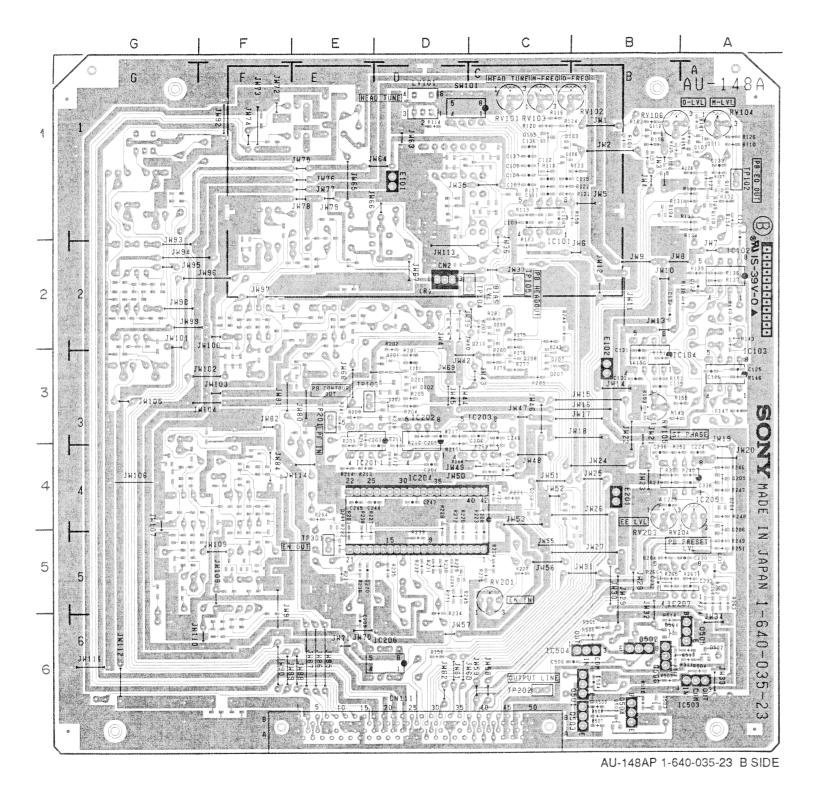


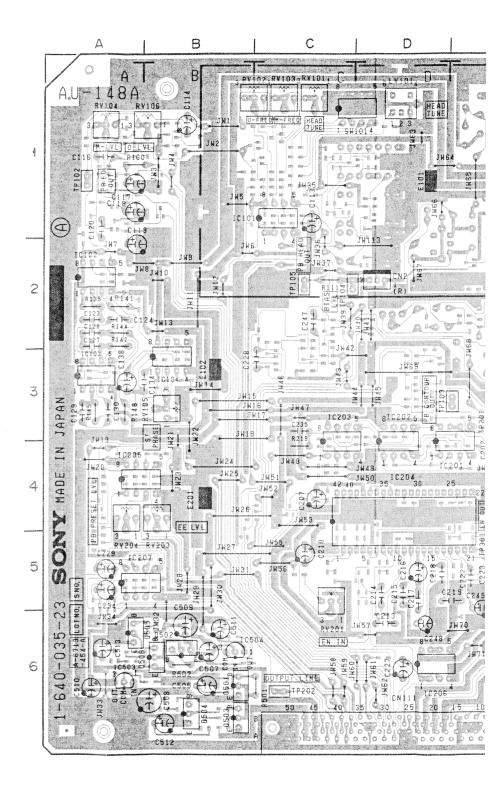


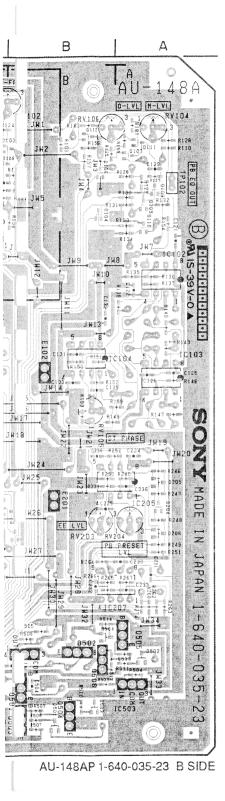
CP-166A 1-640-045-21 A SIDE

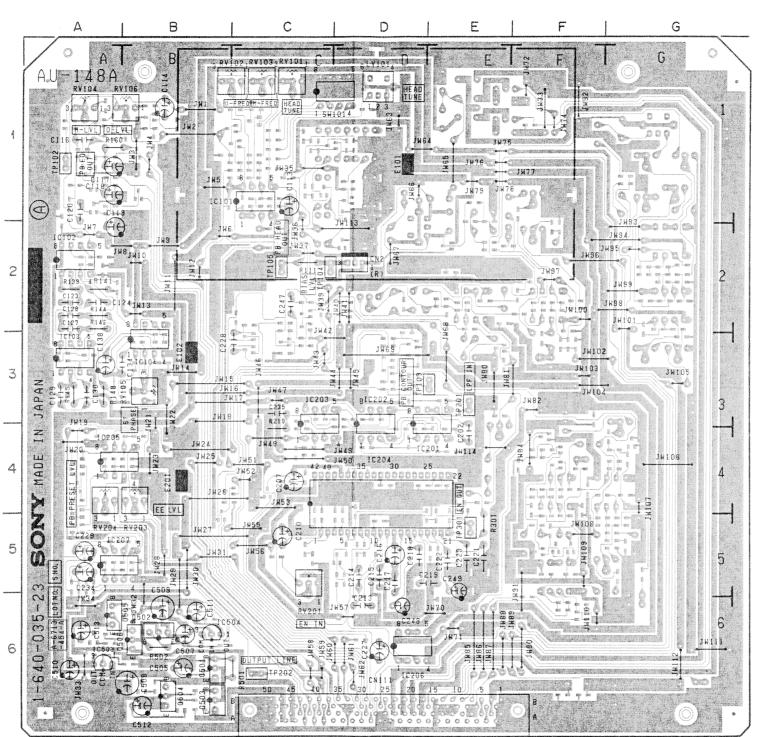
AU-148AP

AU-148AP; AUDIO CH-1 REC/PB PROCESS, DOLBY SYSTEM









AU-148AP 1-640-035-23 A SIDE

AU-148AP	(1-640-035	5-23)	
CN 2 CN 111	D-2 D-6	TP 102 TP 103	A E C
*D 103 *D 104 *D 201 *D 202 *D 204 *D 207 *D 209 *D 501 *D 502 *D 503 *D 504	B-1 D-3 D-3 A-4 C-3 C-2 B-6 A-6 B-6	TP 202 TP 301	E
IC 101 IC 102 IC 103 IC 104 IC 201 IC 202 IC 203 IC 204 IC 205 IC 206 IC 207 IC 503 IC 504	C-1 A-2 A-3 B-3 E-3 D-3 C-3 D-4 A-4 D-6 A-5 B-6 B-6		
LV 101	D-1		
*Q 105 *Q 106 *Q 107 *Q 108 *Q 109 *Q 110 *Q 111 *Q 111 *Q 201 *Q 205 *Q 205 *Q 206 *Q 207 *Q 208 *Q 209 *Q 210 *Q 211 *Q 212 Q 501 Q 502 Q 503 Q 504 Q 505 Q 506	C-1 C-1 A-1 A-1 A-1 B-1 D-3 D-3 A-5 C-3 D-2 E-5 C-4 B-6 B-6 B-6 B-6 B-6 B-6 B-6		
RV 101 RV 102 RV 103 RV 104 RV 105 RV 106 RV 201 RV 203 RV 204	C-1 C-1 C-1 A-1 B-3 B-1 C-5 B-4 A-4		

* : B SIDE

RV 204

SW101

C-1

AU-148AP

AU-148AP; AUDIO CH-1 REC/PB PROCESS, DOLBY SYSTEM

CN 2 CN 111	A-2 D-6	SW101	C-1
OIV III	₽-0	TP 102	A-1
*D 101	C-1	TP 103	E-3
*D 102	D-1	TP 104	C-2
*D 104	B-1	TP 105	C-2
*D 105	D-2	TP 201	E-3
*D 201	D-3	TP 202	C-6
*D 202	D-3	TP 301	E-4

A-4 C-2 C-3 C-3 C-2 *D 204

AU-148AP (1-640-035-22)

E 201 A-2 A-3 B-3 D-1 E-3 D-3 C-3

IC 202 IC 203 IC 204 IC 205 IC 206 IC 207 IC 503 IC 504 A-4 D-6 A-5 B-6

LV 101 D-1 L 501 F-6

*Q 101 *Q 102 *Q 108 D-1 *Q 109 *Q 110

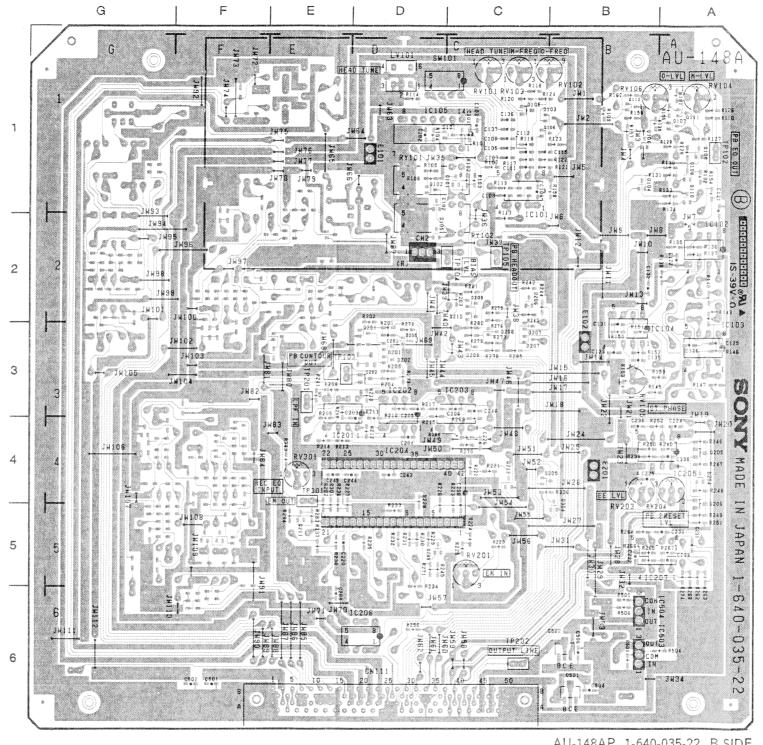
A-1 D-3 D-3 A-4 A-5 C-3 C-3 D-5 C-2 E-5 C-4 *Q 206 *Q 208 *Q 210

RV 102 RV 103

RV 105

RY101 RY102

* : B SIDE



AU-148AP 1-640-035-22 B SIDE

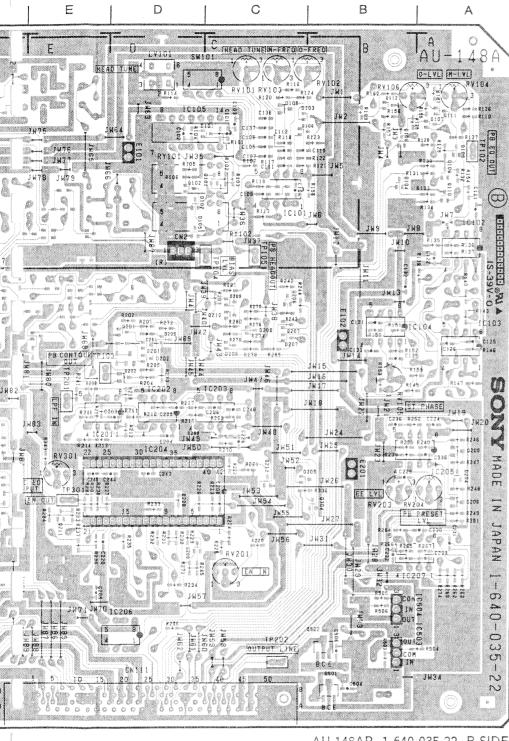
MADE IN

640-035-22

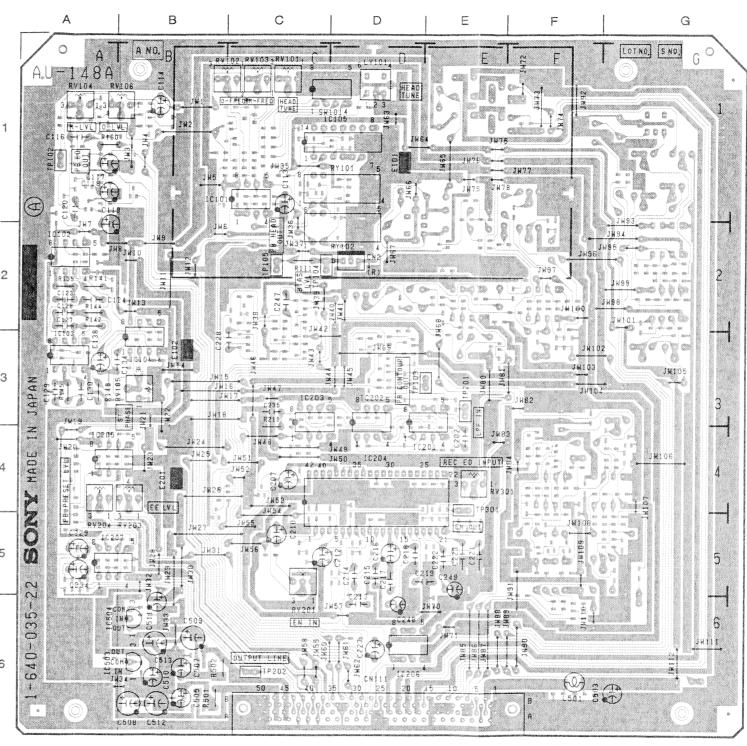
5



A -148AP

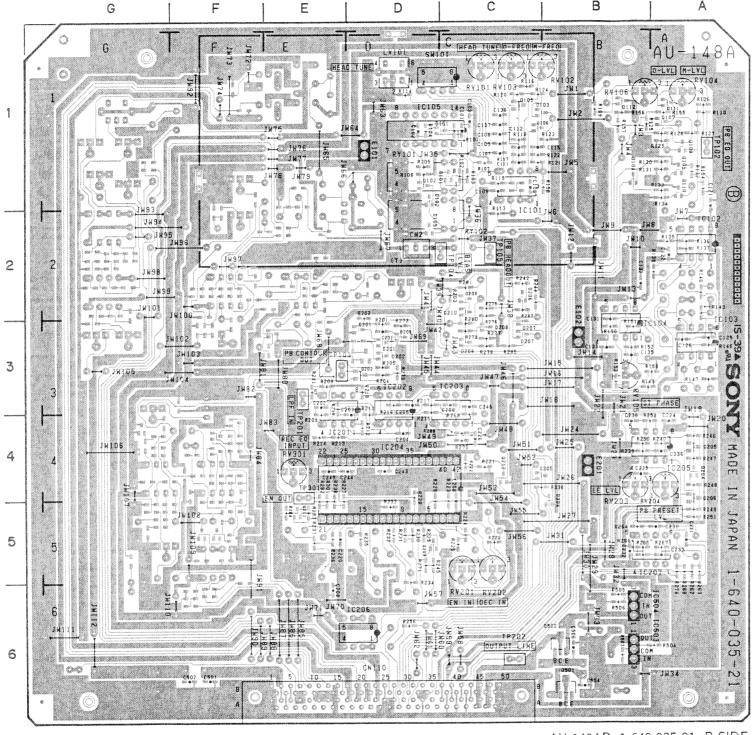


AU-148AP 1-640-035-22 B SIDE

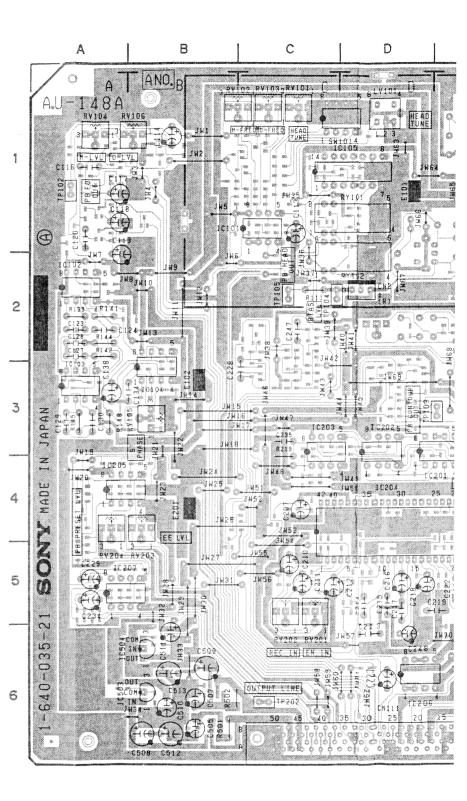


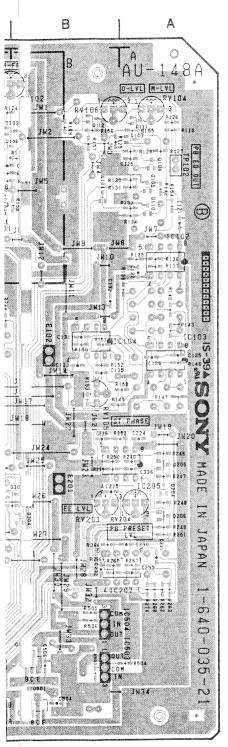
AU-148AP 1-640-035-22 A SIDE

AU-148AP; AUDIO CH-1 REC/PB PROCESS, DOLBY SYSTEM

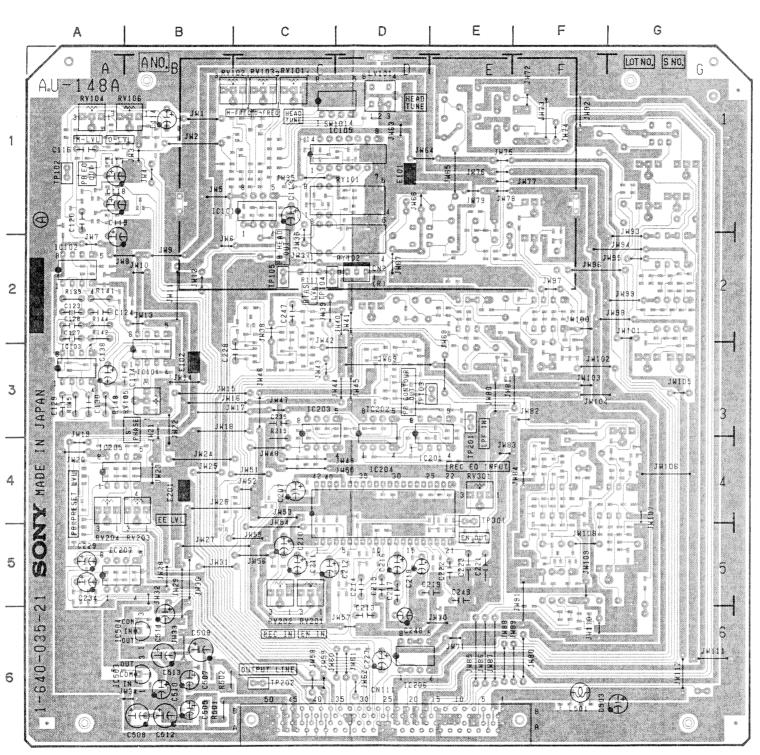


AU-148AP 1-640-035-21 B SIDE





U-148AP 1-640-035-21 B SIDE



AU-148AP 1-640-035-21 A SIDE

AU-148AP (1	1-640-035-21)	
CN 2 CN 111	A-2 D-6	TP 102 TP 103	A- E-
*D 101 *D 102 *D 104 *D 105 *D 201 *D 202 *D 204 *D 206 *D 207 *D 208 *D 209	C-1 D-1 B-1 D-2 D-3 D-3 A-4 C-2 C-3 C-2 C-2	TP 104 TP 105 TP 201 TP 202 TP 301	C-C-E-C-E-
E 101 E 102 E 201	D-1 B-3 B-4		
IC 101 IC 102 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203 IC 204 IC 205 IC 206 IC 207 IC 503 IC 504	C-1 A-2 A-3 B-3 D-1 E-3 D-3 C-3 D-4 A-4 A-5 B-6 B-6		
LV 101	D-1		
L 501	F-6		
*Q 101 *Q 102 *Q 108 *Q 109 *Q 110 *Q 201 *Q 202 *Q 205 *Q 206 *Q 207 *Q 208 *Q 209 *Q 210 *Q 211 *Q 212 *Q 501 *Q 502	C-1 D-1 A-1 A-1 D-3 D-3 A-4 A-5 C-3 C-3 D-5 C-2 E-5 C-4 B-6 B-6		
RV 101 RV 102 RV 104 RV 105 RV 106 RV 201 RV 203 RV 204 RV 301	C-1 C-1 A-1 B-3 B-1 C-5 B-4 A-4 E-4		
RY101 RY102	D-1 D-2		

SW101 C-1

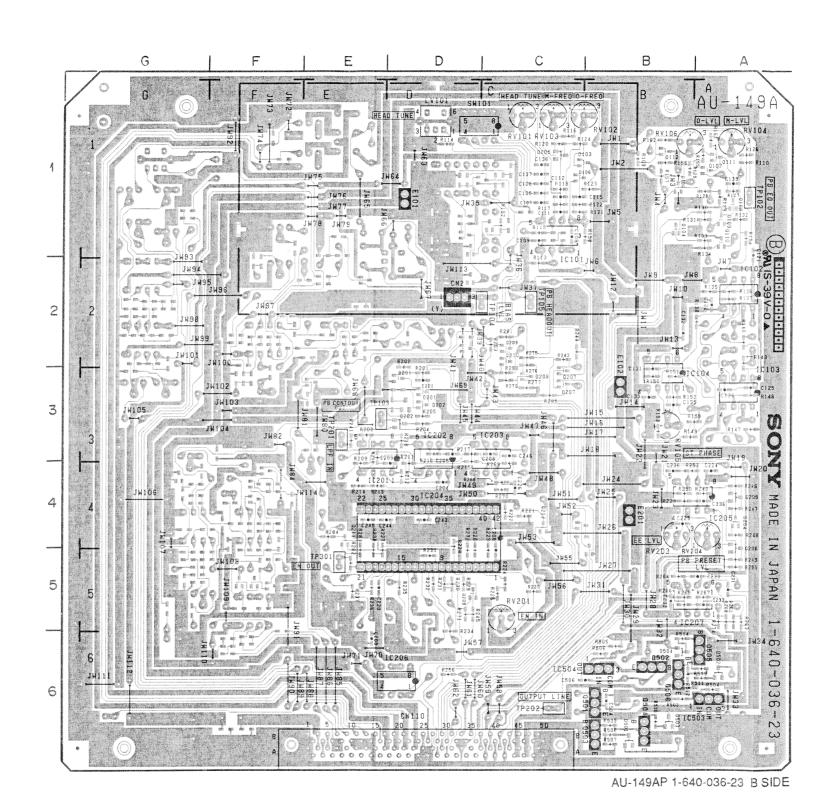
* : B SIDE

AU-149AP; AUDIO CH-2 PB PROCESS, DOLBY SYSTEM

AU-149AP (1-640-036-23)

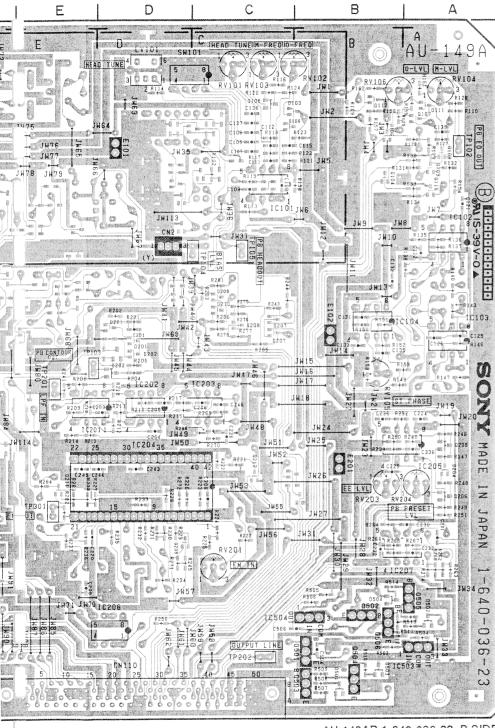
140/11	(1 040 000 20)		
CN 2 CN 110	D-2 D-6	TP 102 TP 103 TP 202	A-1 E-3 C-6
*D 103 *D 104 *D 201 *D 202 *D 204 *D 207 *D 209 *D 501 *D 502 *D 503 *D 504	B-1 B-1 D-3 D-3 A-4 C-3 C-2 B-6 A-6 B-6	TP 301	E-4
IC 101 IC 102 IC 103 IC 104 IC 201 IC 202 IC 203 IC 203 IC 205 IC 206 IC 207 IC 503 IC 504	C-1 A-2 A-3 B-3 E-3 D-3 C-3 D-4 A-4 D-6 A-5 B-6 B-6		
LV 101	D-1		
*Q 105 *Q 106 *Q 107 *Q 108 *Q 109 *Q 110 *Q 111 *Q 201 *Q 205 *Q 206 *Q 206 *Q 207 *Q 208 *Q 207 *Q 210 *Q 211 *Q 212 Q 503 Q 504 Q 505 Q 506	C-1 C-1 A-1 A-1 A-1 A-1 B-1 D-3 A-4 A-5 C-3 C-3 C-5 C-4 B-6 B-6 B-6 B-6 B-6 B-6 B-6		
RV 101 RV 102 RV 103 RV 104 RV 105 RV 106 RV 201 RV 203 RV 204 SW101	C-1 C-1 C-1 A-1 B-3 B-1 C-5 B-4 A-4		
200101	0-1		

* : B SIDE

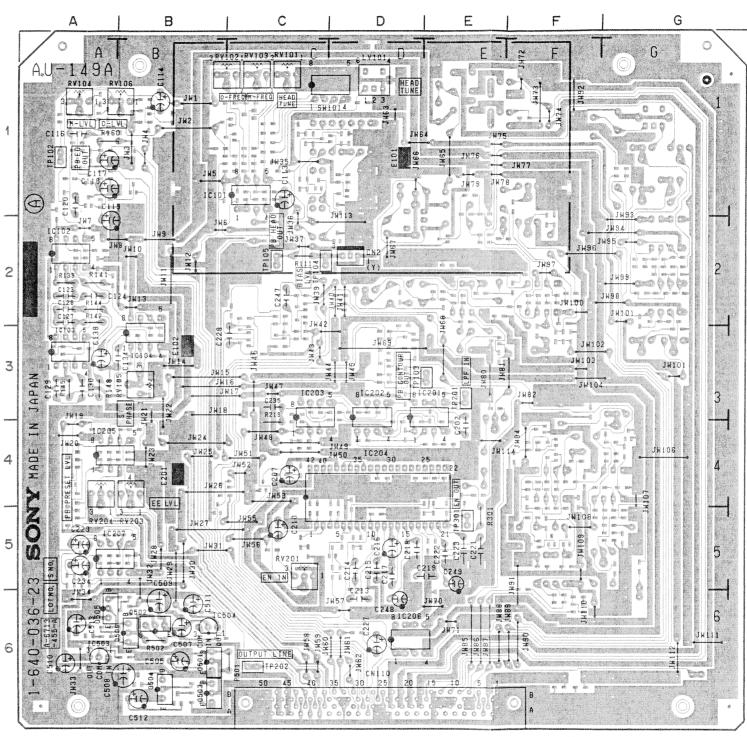




J. 49AP



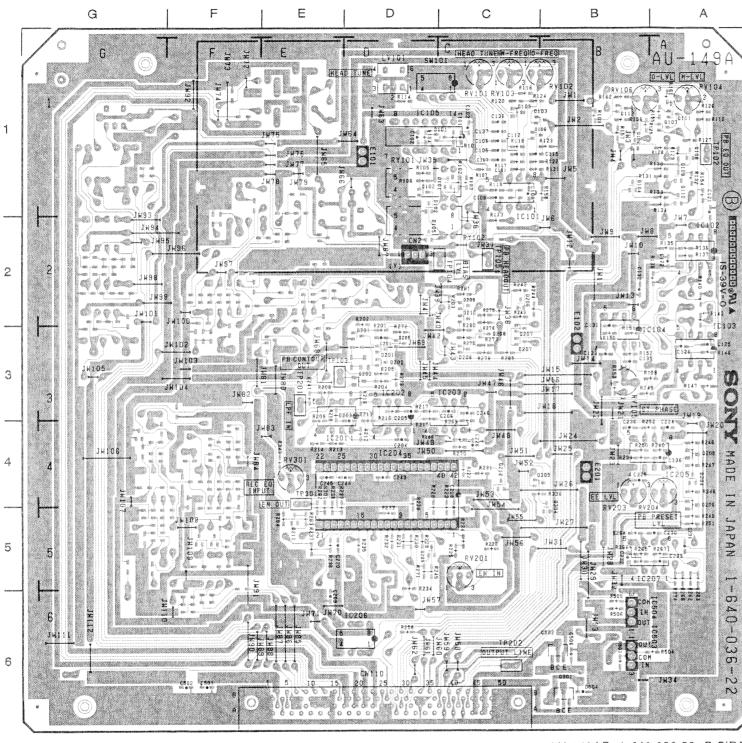
AU-149AP 1-640-036-23 B SIDE



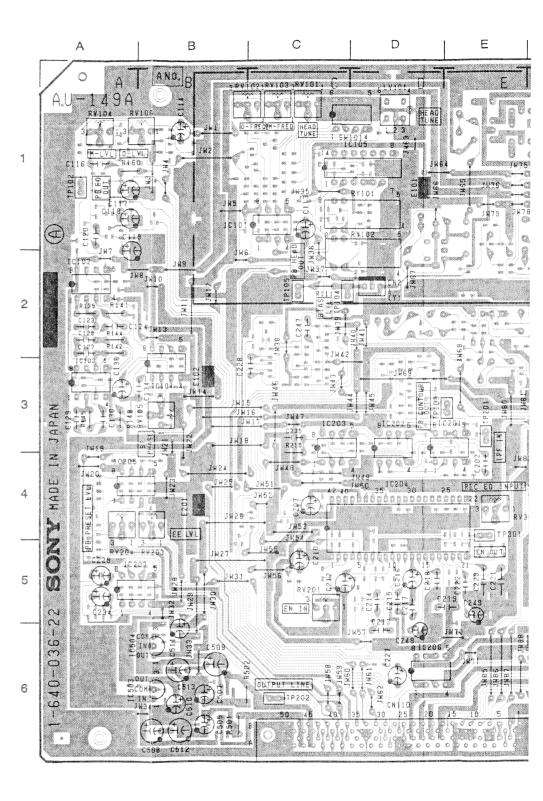
AU-149AP 1-640-036-23 A SIDE

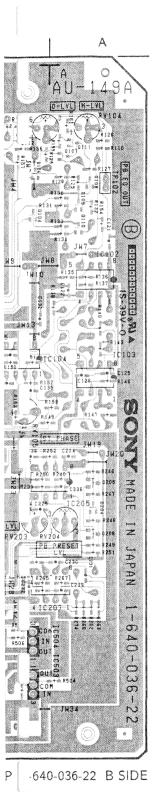
Serial No.(EK);11151 to 14585 Serial_No.(UC);10001 to 10010

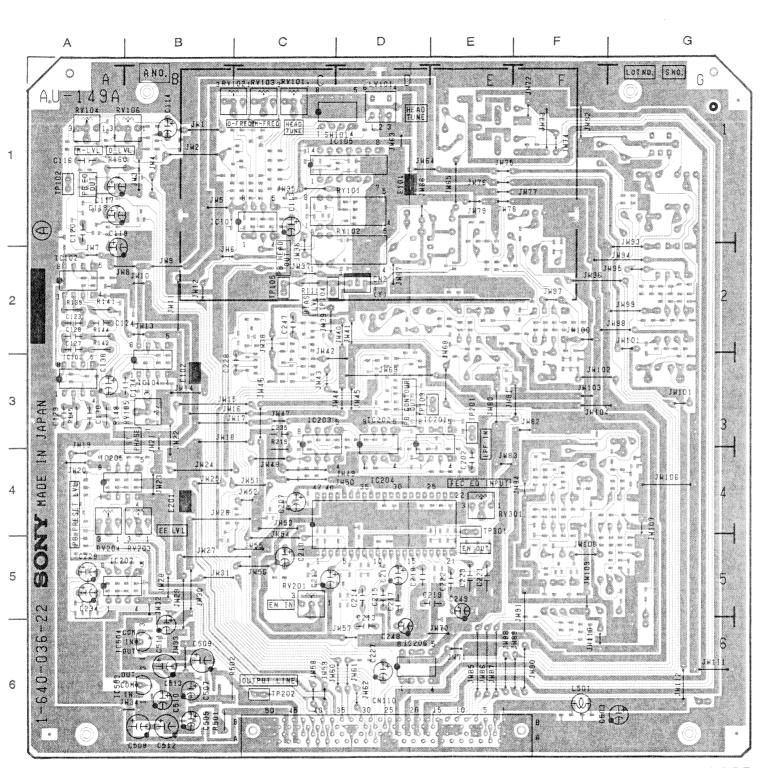
AU-149AP: AUDIO CH-2 PB PROCESS, DOLBY SYSTEM



AU-149AP 1-640-036-22 B SIDE







AU-149AP 1-640-036-22 A SIDE

AU-149AP ((1-640-036	-22)	
CN 2 CN 110	A-2 D-6	TP 102 TP 103 TP 104	A-1 E-3 C-2
*D 101 *D 102 *D 104 *D 105 *D 201 *D 202 *D 204 *D 206 *D 207 *D 208 *D 209	C-1 D-1 B-1 D-2 D-3 D-3 A-4 C-2 C-3 C-3 C-2	TP 105 TP 201 TP 202 TP 301	C-2 E-3 C-6 E-4
E 101 E 102 E 201	D-1 B-3 B-4		
IC 101 IC 102 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203 IC 204 IC 205 IC 206 IC 207 IC 503 IC 504	C-1 A-2 A-3 B-3 D-1 E-3 D-3 C-3 D-4 A-4 D-6 A-5 B-6 B-6		
LV 101	D-1		
L 501	F-6		
*Q 101 *Q 102 *Q 108 *Q 109 *Q 110 *Q 201 *Q 202 *Q 205 *Q 206 *Q 207 *Q 208 *Q 209 *Q 210	C-1 D-1 A-1 A-1 D-3 D-3 A-4 A-5 C-3 C-3 D-5		

C-3 D-5 C-2 E-5 C-4 B-6 B-6

C-1 C-1 B-3 B-1 C-5 B-4 A-4 E-4

D-2

* : B SIDE

*Q 210

*Q 211 *Q 212 *Q 501 *Q 502

RV 101 RV 102 RV 105

RV 201 RV 203 RV 204 RV 301

RY101

RY102

SW101

AU-149AP: AUDIO CH-2 PB PROCESS, DOLBY SYSTEM

; AUDIC	O CH-2 F	PB PROCES	SS, DO
AU-149AP ((1-640-036	i-21)	
CN 2 CN 110	D-2 D-6	RY101 RY102	D-1 D-2
*D 101 *D 102	C-1 D-1	SW101	C-1
*D 104 *D 105 *D 201 *D 202 *D 204 *D 206 *D 207 *D 208 *D 209	B-1 D-2 D-3 D-3 A-4 C-2 C-3 C-2	TP 102 TP 103 TP 104 TP 105 TP 201 TP 202 TP 301	A-1 E-3 C-2 C-2 E-3 C-6 E-4
E 101 E 102 E 201	D-1 B-3 B-4		
IC 101 IC 102 IC 103 IC 104 IC 105 IC 201 IC 202 IC 203 IC 204 IC 205 IC 206 IC 207 IC 503 IC 504	C-1 A-2 A-3 B-3 D-1 E-3 D-3 C-3 D-4 A-4 D-6 A-5 B-6 B-6		
LV 101	D-1		
L 501	F-6		
*Q 101 *Q 102 *Q 108 *Q 109 *Q 110	C-1 D-1 A-1 A-1 A-1		

*Q 201 *Q 202 *Q 205 *Q 206

*Q 207 *Q 208

*Q 200 *Q 209 *Q 210 *Q 211 *Q 212

*Q 501

*Q 502

RV 101 RV 102 RV 104

RV 105

RV 106

RV 201 RV 203 RV 204 RV 301

* : B SIDE

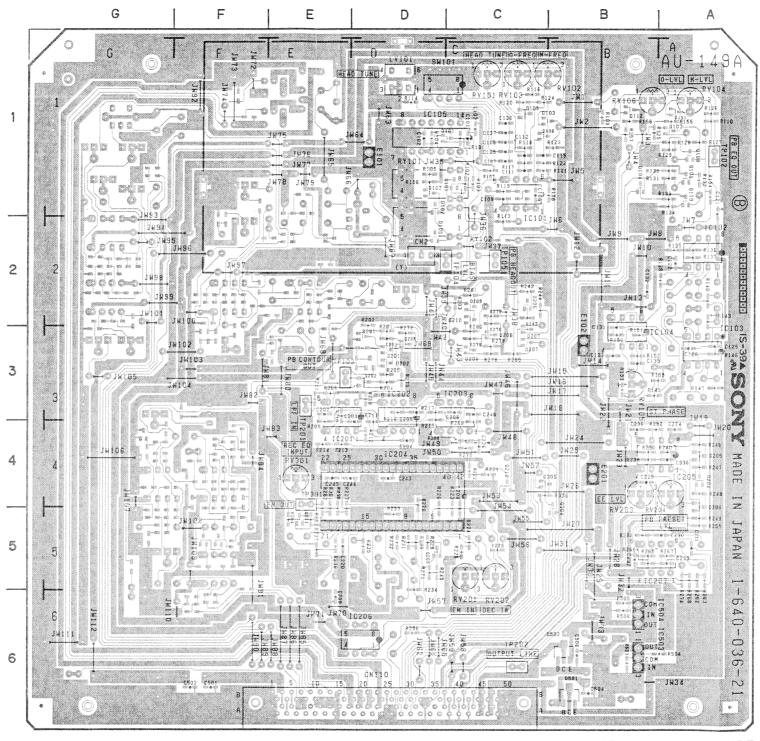
A-4 A-5 C-3 C-3 D-5 C-2 E-5 C-4

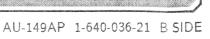
B-6

C-1 A-1

B-3

C-5 B-4





2

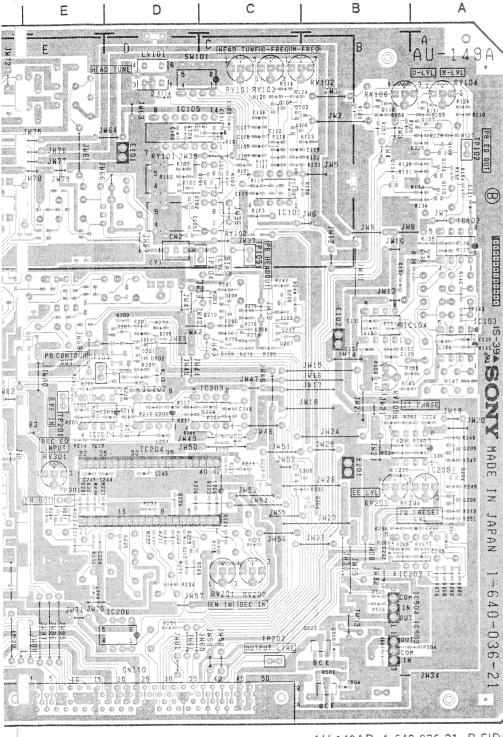
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40-036-

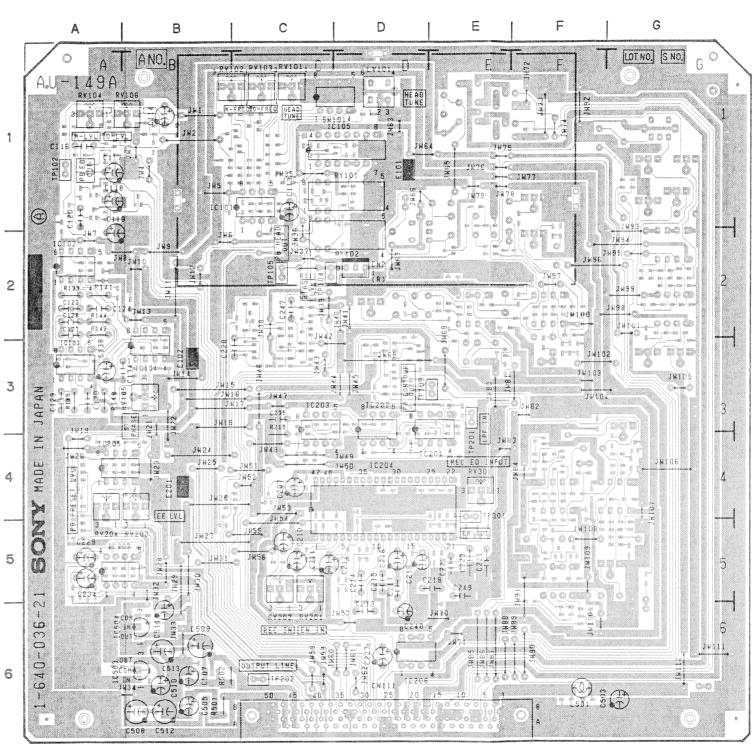
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6

15-9(a)



AU-149AP 1-640-036-21 B SIDE

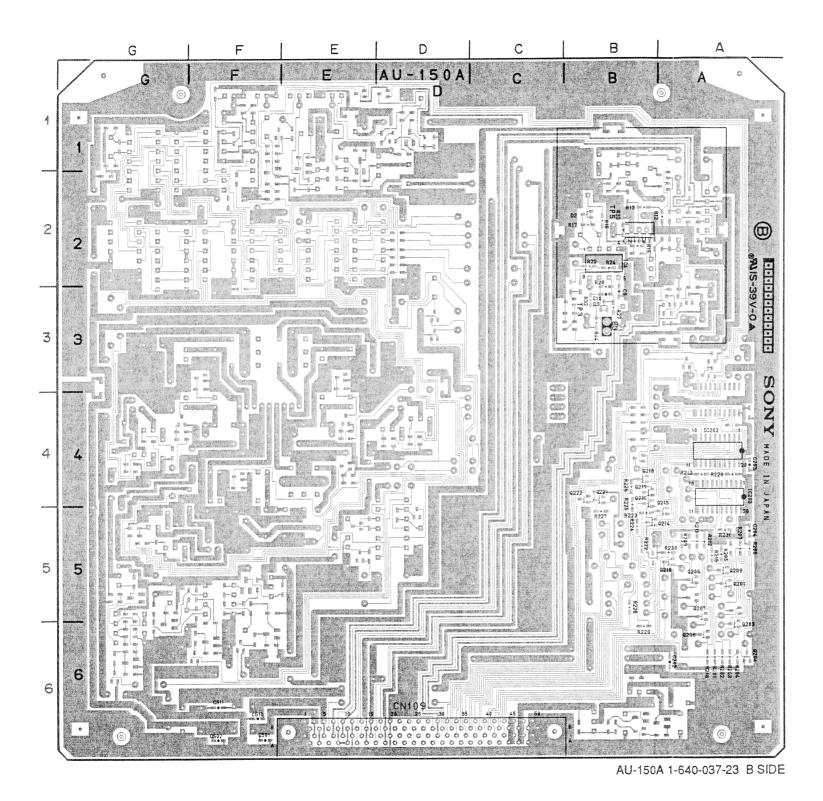


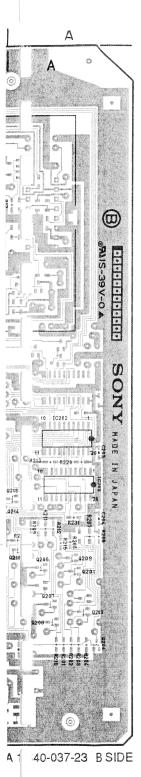
AU-149AP 1-640-036-21 A SIDE

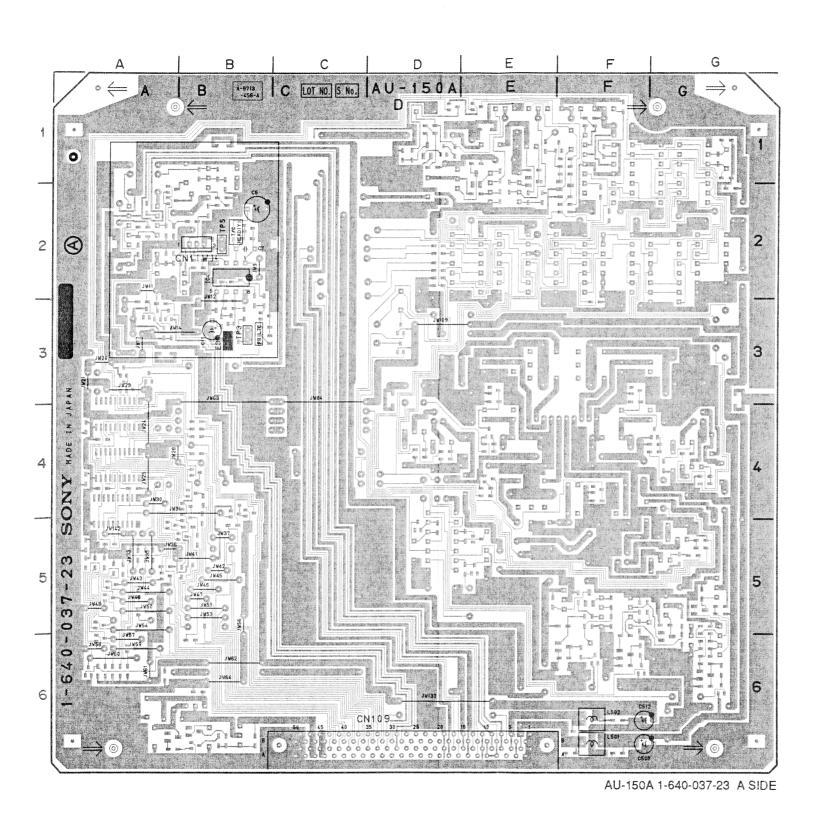
A-6713 C LOT NO. S No. AU - 150 A

AU-1

AU-150A; AUDIO MODE CONTROL, LTC PB







CN 1 A-2 CN 109 D-6

*D 2 B-2 *D 3 B-3

E 3 B-3

IC 4 B-2 *IC 202 A-4

*IC 203 A-4

L 501 F-6 L 502 F-6

*Q 201 A-5

*Q 203 A-6

*Q 204 A-6

*Q 205 A-5

*Q 207 A-5

*Q 208 A-6

*Q 209 A-5

*Q 209 A-5

*Q 209 A-5

*Q 210 A-5

*Q 210 A-5

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*Q 215 B-4

*Q 217 B-4

*Q 218 B-4

*Q 221 B-4

*Q 222 B-4

TP 3

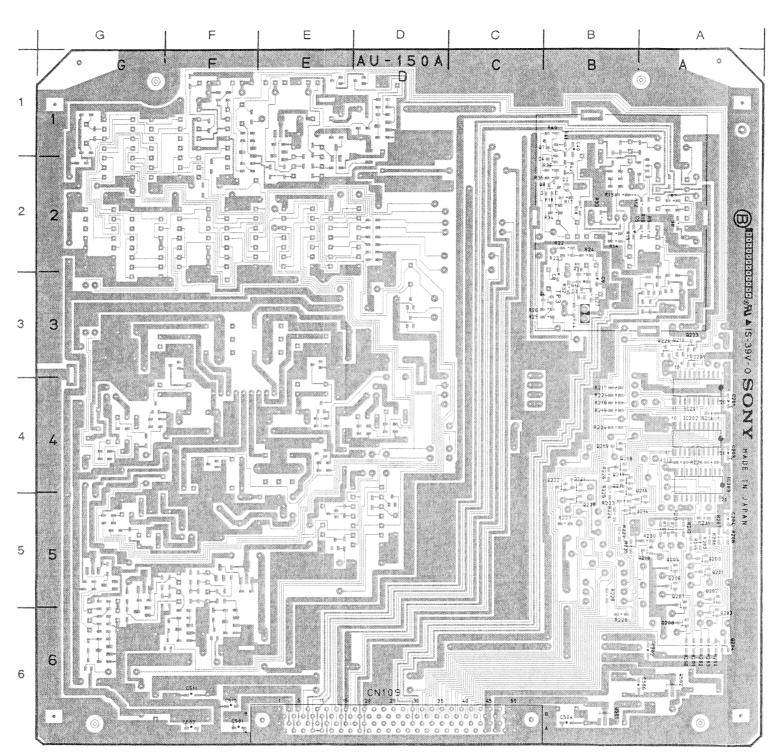
* : B SIDE

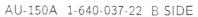
B-3

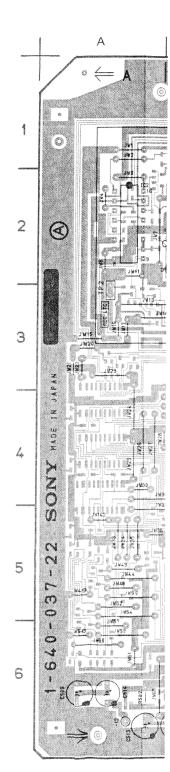
AU-150A (1-640-037-23)

AU-150A; AUDIO MODE CONTROL, LTC PB

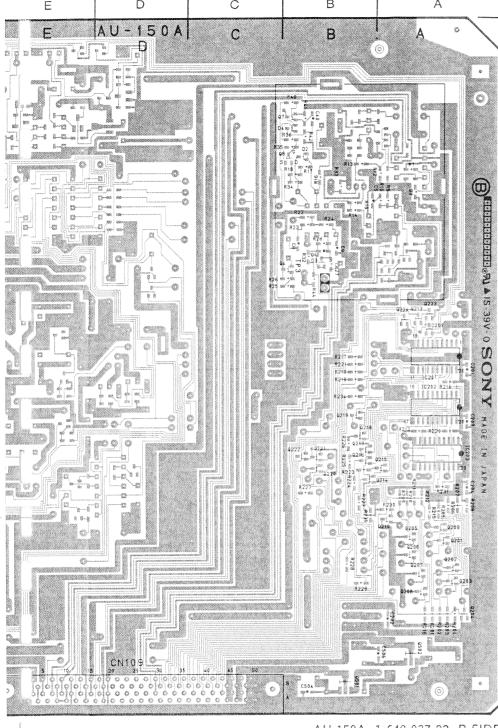
AU-150A (1	-640-037-22)
CN 1	B-2
CN 109	D-7
*D 2	B-2
*D 3	B-3
*D 4	B-2
*D 201	A-3
E 3	B-3
IC 2	A-2
IC 3	B-1
IC 4	B-2
*IC 201	A-5
*IC 202	A-5
*IC 203	A-5
L 1	B-3
L 501	F-7
L 502	F-7
Q 3 *Q 4 *Q 7 *Q 8 *Q 201 *Q 202 *Q 203 *Q 204 *Q 205 *Q 206 *Q 207 *Q 208 *Q 210 *Q 213 *Q 214 *Q 215 *Q 216 *Q 217 *Q 218 *Q 219 *Q 220 *Q 221 *Q 222 *Q 223 *Q 224 *Q 501 *Q 502	B-3-1-2-5-5-6-6-5-5-5-7-5-5-3-5-5-4-4-5-4-4-3-3-6-5-5-5-4-4-5-8-8-8-8-8-8-8-8-8-8-8-8-8-8
TP 2	A-3
TP 3	B-3
TP 5	B-2
* : B SIDE	



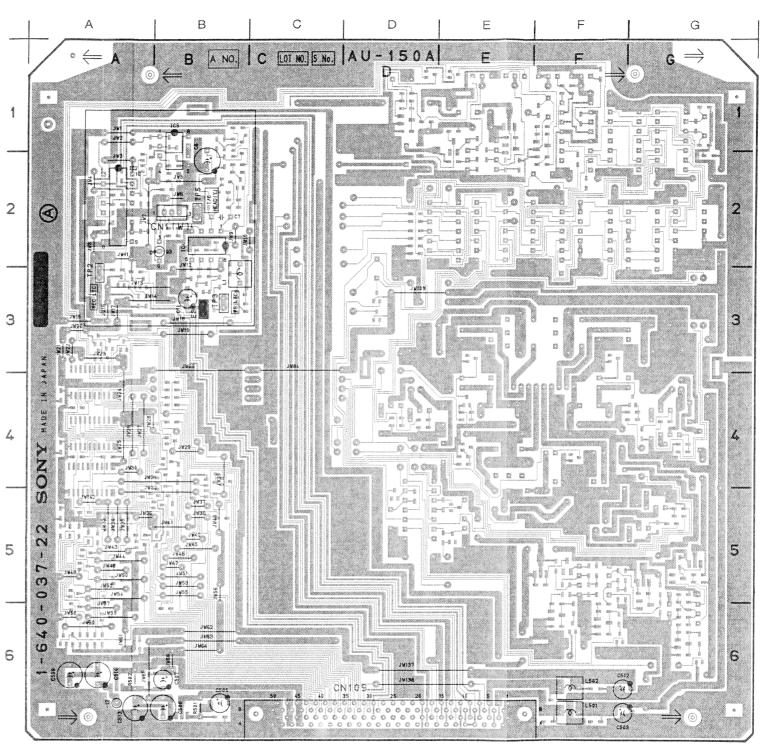




L 150A

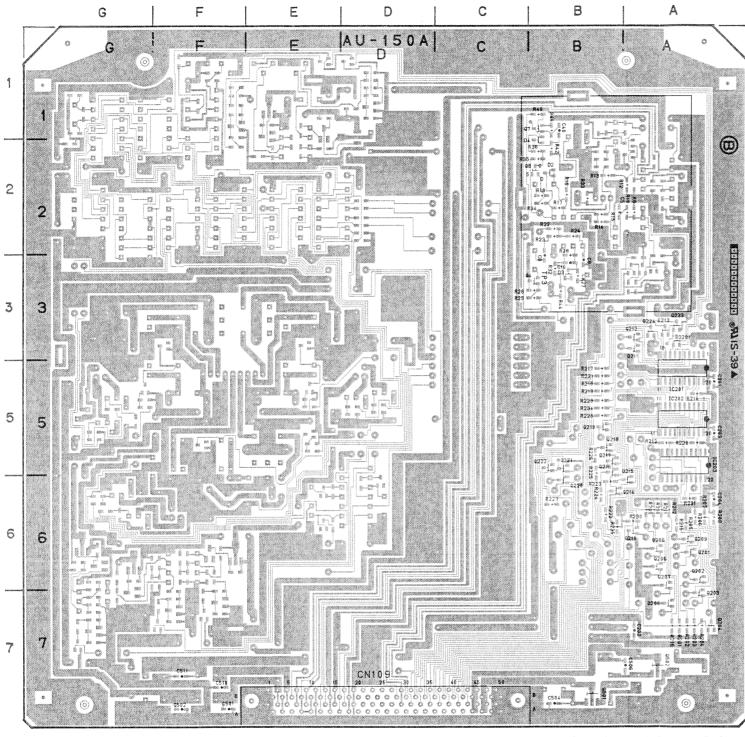


AU-150A 1-640-037-22 B SIDE

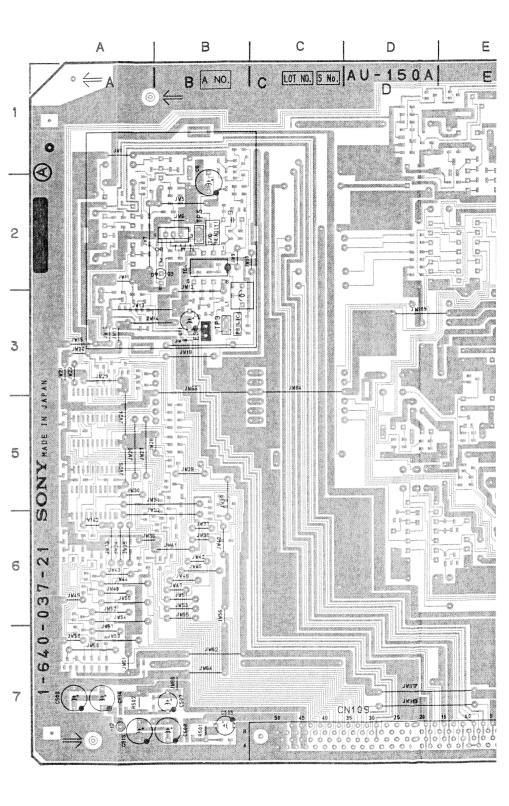


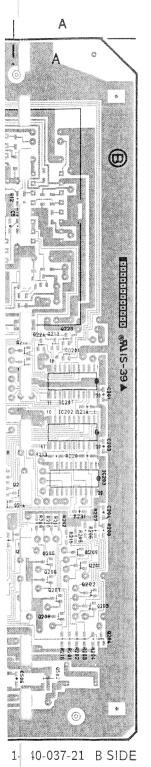
AU-150A 1-640-037-22 A SIDE

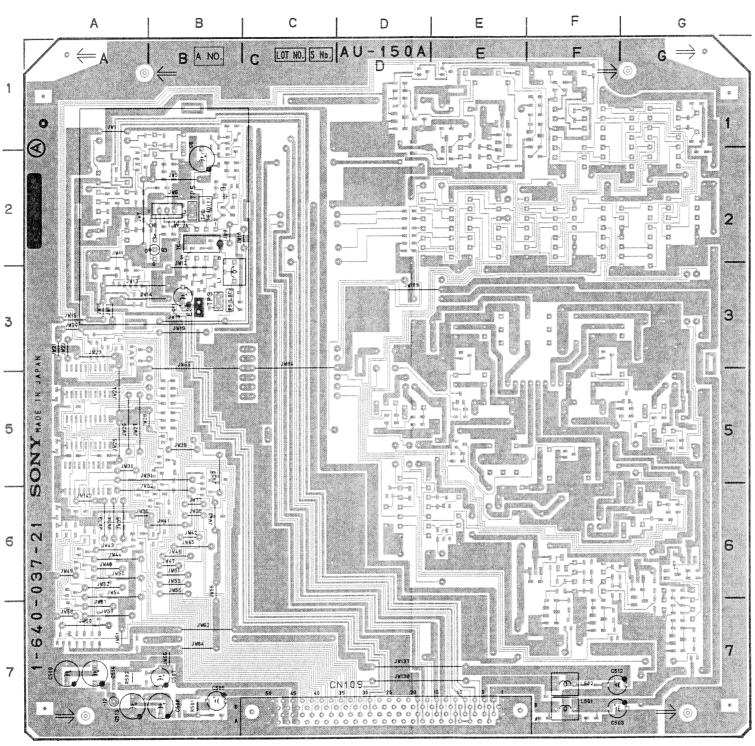
AU-150A; AUDIO MODE CONTROL, LTC PB



AU-150A 1-640-037-21 B SIDE







AU-150A 1-640-037-21 A SIDE

AU-150A (1-	640-037-21)
CN 1	B-2
CN 109	D-7
*D 2	B-2
*D 3	B-3
*D 4	B-2
*D 201	A-3
E 3	B-3
IC 4	B-2
*IC 201	A-5
*IC 202	A-5
*IC 203	A-5
L 1	B-3
L 501	F-7
L 502	F-7
Q 3 *Q 4 *Q 7 *Q 8 *Q 201 *Q 202 *Q 203 *Q 204 *Q 205 *Q 206 *Q 207 *Q 208 *Q 209 *Q 210 *Q 211 *Q 212 *Q 213 *Q 214 *Q 215 *Q 216 *Q 217 *Q 218 *Q 219 *Q 220 *Q 221 *Q 222 *Q 223 *Q 224 *Q 501 *Q 502	B-3 B-1 B-2 B-1 B-6 A-7 A-6 A-7 A-6 A-7 A-6 A-3 B-5 B-5 B-5 B-5 B-5 B-7 A-7 A-7 A-7 A-7 A-7 A-7 A-7 A-7 A-7 A
TP 3	B-3
TP 5	B-2
* : B SIDE	

Serial No. (EK); 14586 and higher Serial No. (UC); 10011 and higher CP-167A

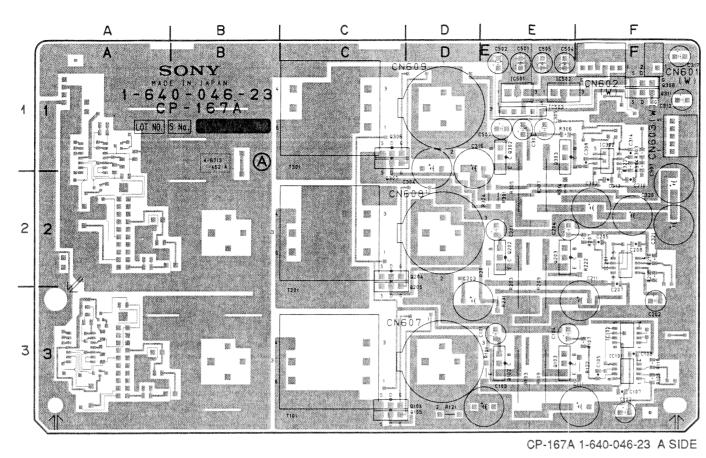
CP-167A

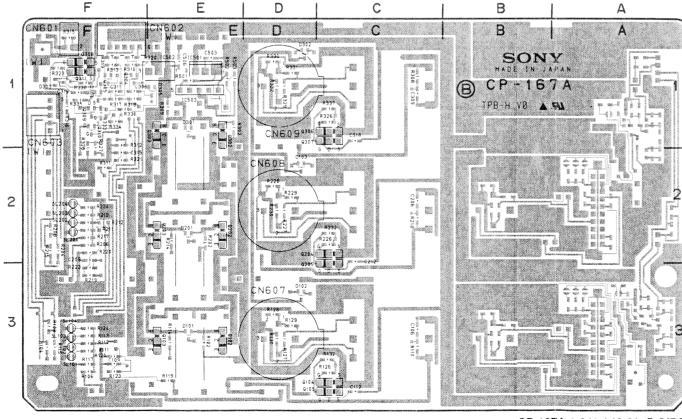
CP-167A; AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER

CP-167A (1-640-046-23) CN 601 CN 602 CN 603 CN 607 D-3 CN 608 D-2 CN 609 D-1 *D 101 E-3 D-3 D-2 *D 102 *D 103 E-2 *D 201 E-1 *D 301 D-1 *D 302 F-1 *D 303 *D 304 F-1 *D 305 E-1 IC 101 IC 102 IC 201 IC 302 F-3 F-1 IC 501 IC 502 IC 503 E-1 E-1 E-1 Q 102 E-3 Q 103 E-3 Q 104 D-3 Q 104 Q 105 Q 202 Q 203 Q 204 D-3 E-2 E-2 D-2 D-3 Q 204 Q 205 Q 302 Q 303 *Q 304 *Q 305 Q 306 E-1 F-1 F-1 C-1 C-2 F-1 F-1 Q 307 Q 308 *Q 309 F-1 F-1 *Q 310 Q 311 C-3 T 101 C-3 C-1 T 201

T 301

* : B SIDE

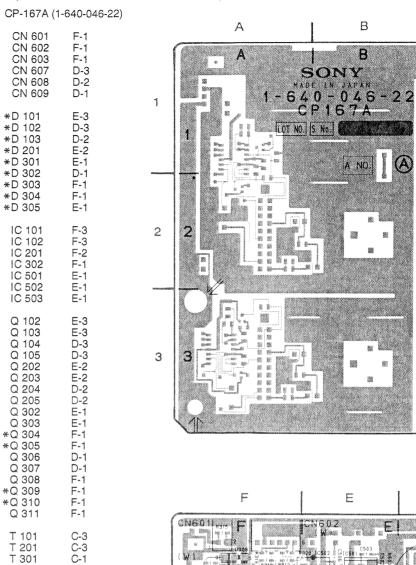




CP-167A 1-640-046-23 B SIDE 15-11

Serial No. (EK); 13916 to 14585 Serial No.(UC);10001 to 10010

CP-167A; AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER



2

3

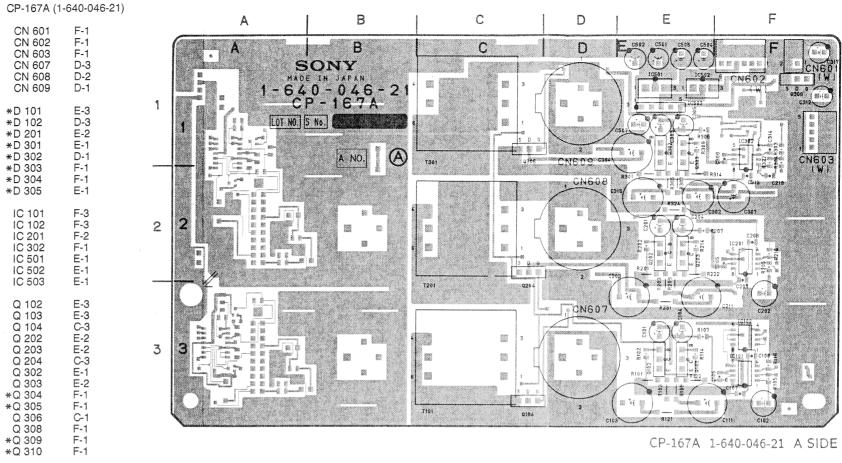
T 301

* : B SIDE

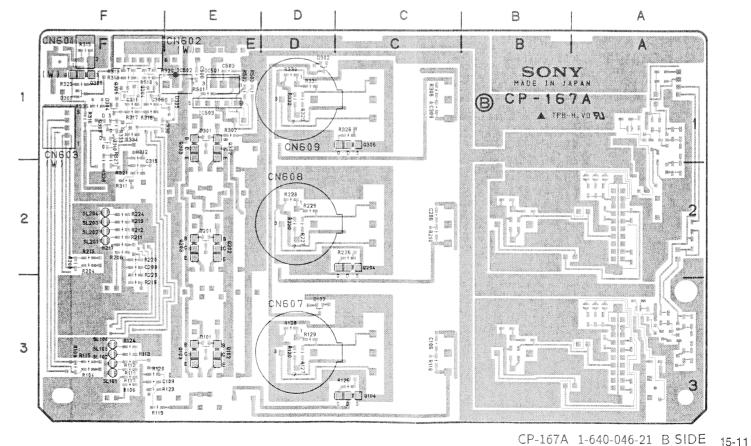
Serial No. (EK); 10001 to 13915

T 101 T 201

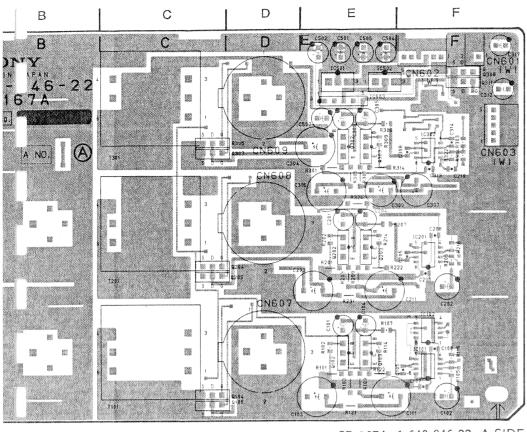
T 301 * : B SIDE C-3 C-2 C-1



CP-167A 1-640-046-21 A SIDE



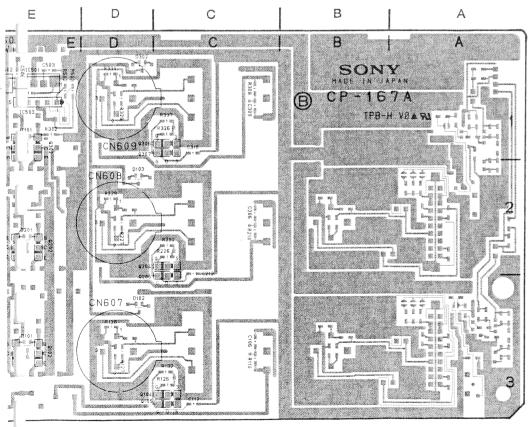




85 10

Έ.

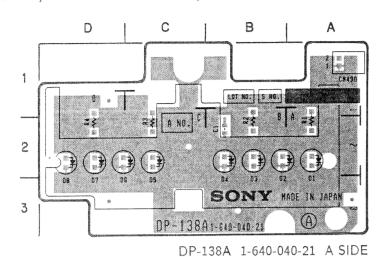
CP-167A 1-640-046-22 A SIDE



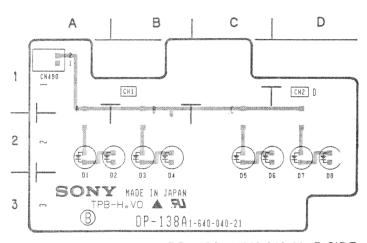
CP-167A 1-640-046-22 B SIDE

DP-138A; AUDIO LEVEL METER BACK LIGHT

VR-116A; AUDIO PB LEVEL CONTROL, HEADPHONE VOLUME CONTROL MA-44A; AUDIO METER DRIVER, HEADPHONE AMPLIFIER

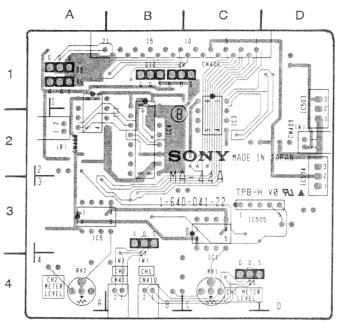


DP-138A (1-640-040-21) CN490 A-1 D 1 D 2 D 3 D 4 D 5 D 6 D 7 D 8 A-2 B-2 B-2 C-2 D-2 D-2 D-2



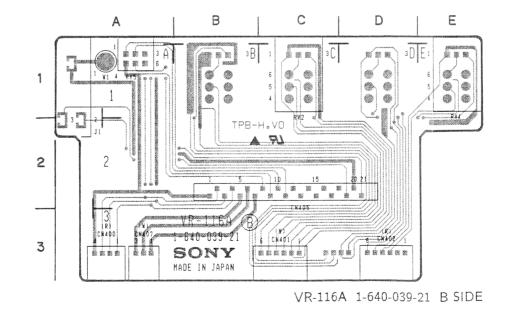
DP-138A 1-640-040-21 B SIDE

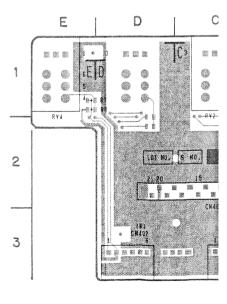
Serial No. (EK); 10651 and higher Serial No. (UC); 10001 and higher



MA-44A 1-640-041-22 B SIDE





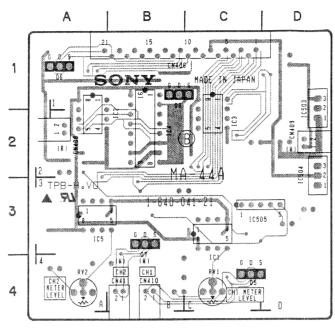


15-12

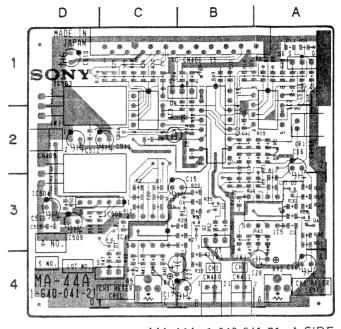
1A-44A 1-640-041-22 A SIDE

MA-44A (1-	640-041-22)
CN 406	B-1
CN 408	A-2
CN 409	D-2
CN 410	B-4
CN 411	B-4
D 1	C-3
D 2	B-3
D 3	B-1
IC 1	C-3
IC 2	A-2
IC 3	C-2
IC 4	B-2
IC 5	A-3
IC 503	D-1
IC 504	D-2
IC 505	C-3
Q 1 Q 2 Q 3 Q 4 Q 5 Q 6 Q 7 Q 8 Q 9 Q 10	B-3 B-3 A-3 A-3 C-4 A-1 B-3 B-1 A-1
RV 1	C-4
RV 2	A-4

Serial No.(EK);10001 to 10650

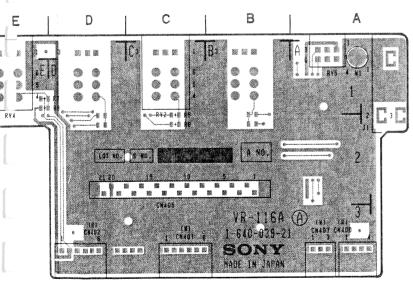


MA-44A 1-640-041-21 B SIDE



MA-44A 1-640-041-21 A SIDE

MA-44A (1-	640-041-21
CN 406 CN 408 CN 409 CN 410 CN 411	D-2 B-4
D 1 D 2	C-3 B-3
IC 1 IC 2 IC 3 IC 4 IC 5 IC 503 IC 504 IC 505	D-2
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8	B-3 B-3 A-3 A-3 C-4 A-1 B-3 B-1
RV 1	C-4 A-4



VR-116A 1-640-039-21 A SIDE

VR-116A (1-640-039-21)

CN 400	A-1
CN 401	C-3
CN 402	D-3
CN 403	C-3
CN 405	C-2
CN 407	A-2
RV 1	B-1
RV 2	C-2
RV 3	D-2
RV 4	E-2
RV 5	A-1

Serial No. (EK); 13101 and higher Serial No. (UC); 10001 and higher

SS-48P; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER. CHARACTER GENERATOR

SS-48P (1-640-029-13) CN 1 CN 139 IC 402 IC 403 IC 404 *Q 404 J-2 J-3 M-1 N-7 *Q 405 K-6 CN 140 *Q 406 M-1 CN 141 C-7 IC 405 *Q 407 M-1 L-3 J-5 M-1 IC 406 *Q 408 M-1 COP 1 R-4 IC 407 *Q 409 M-1 COP 2 COP 3 R-4 IC 408 *Q 410 N-1 R-4 IC 410 G-6 *Q 411 K-6 K-6 K-6 R-4 IC 411 *Q 412 G-5 COP 4 IC 412 Q 604 E-7 G-6 E-7 COR 1 R-4 IC 413 Q 605 J-7 D-7 IC 414 *Q 606 IC 415 *Q 701 CV 401 M-1 IC 415 IC 501 IC 502 IC 504 IC 505 IC 506 *Q 702 *Q 703 D-7 F-6 M-1 CV 402 F-6 E-6 *Q 704 *Q 705 *D 101 *D 102 E-6 E-6 *D 401 *Q 706 IC 507 *Q 707 *D 402 L-7 M-7 *D 403 IC 508 *Q 708 IC 510 *Q 709 *D 404 *D 405 IC 511 *Q 710 L-6 IC 514 M-7 *D 406 *Q 711 *D 601 IC 601 *Q 801 A-5 *D 602 IC 602 *Q 802 A-2 *D 603 IC 603 *Q 803 A-2 *D 604 IC 604 Q 805 A-4 *D 605 IC 605 R-1 *D 606 IC 606 *D 607 IC 607 *D 608 IC 608 S 302 K-1 *D 609 IC 609 S 303 L-1 *D 610 IC 610 S 304 L-1 *D 611 IC 611 S 601 *D 612 IC 612 S 602 A-1 *D 613

TP 6

TP 401

TP 408

TP 708 TP 717

TP 801

TP 802

TP 806

X 101

X 401

X 402

X 501

X 601 X 701

X 702

R-2

J-1 J-1 C-1

E-1

F-7

G-7 D-1

R-3

L-4

K-1

M-1

F-3 B-2 B-4

IC 613 IC 615 IC 616 *D 616 IC 618 IC 619 IC 620 IC 621 IC 622 IC 701 IC 701 IC 702 IC 703 IC 704 IC 706 IC 707 IC 709 N-2 F-5 A-4 C-5 C-6 D-5 E-4 E-5 C-5 F-7 B-6 A-7 B-5 A-7 B-1 P-3

IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 10 IC 11 J-5 P-1 R-1 N-3 M-3 N-3 P-1 R-3 L-5 L-5 IC 710 IC 711 IC 801 IC 802 IC 803 IC 804 IC 805 IC 806 IC 807 IC 808 IC 102 IC 103 IC 809 A-6 IC 810 A-6

M-5 M-6 M-6 L 401 N-1 L 602 L-6 L 603 K-7 G-2 K-7 N-5 *Q 401 G-1 *Q 402 L-2 *Q 403 J-6

*: B SIDE

IC 104 IC 105

IC 301

IC 302 IC 303

IC 401

*D 614

*D 615

*D 701

*D 702

*D 703

*D 801

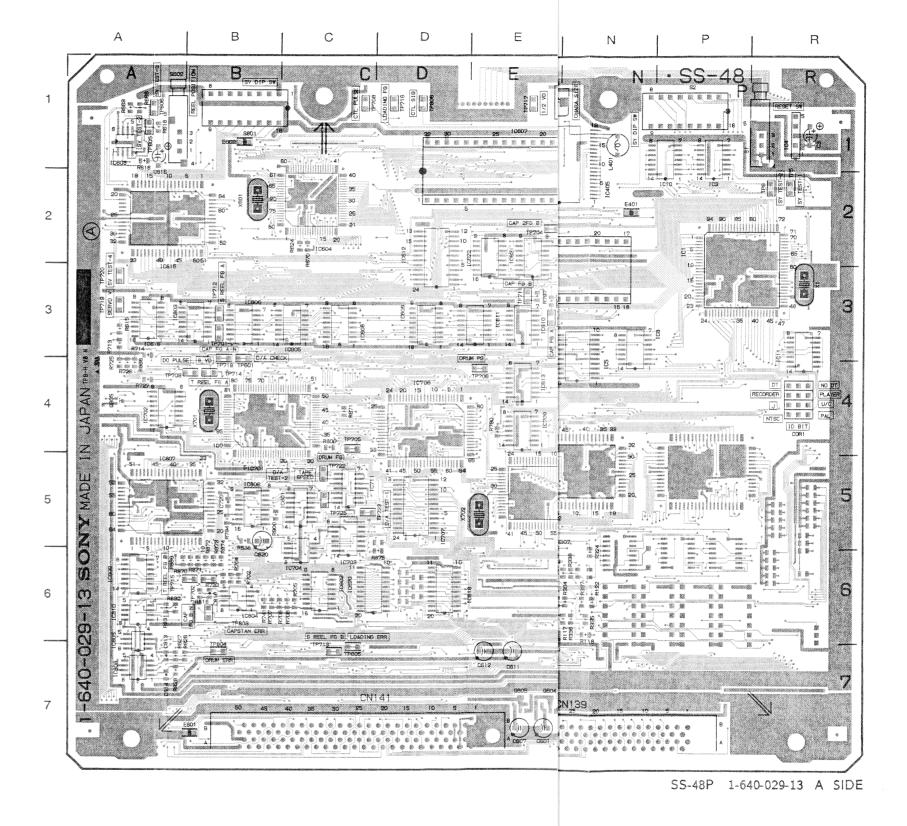
E 401

E 601

E 602

SS-48P SS-48P

SS-48P

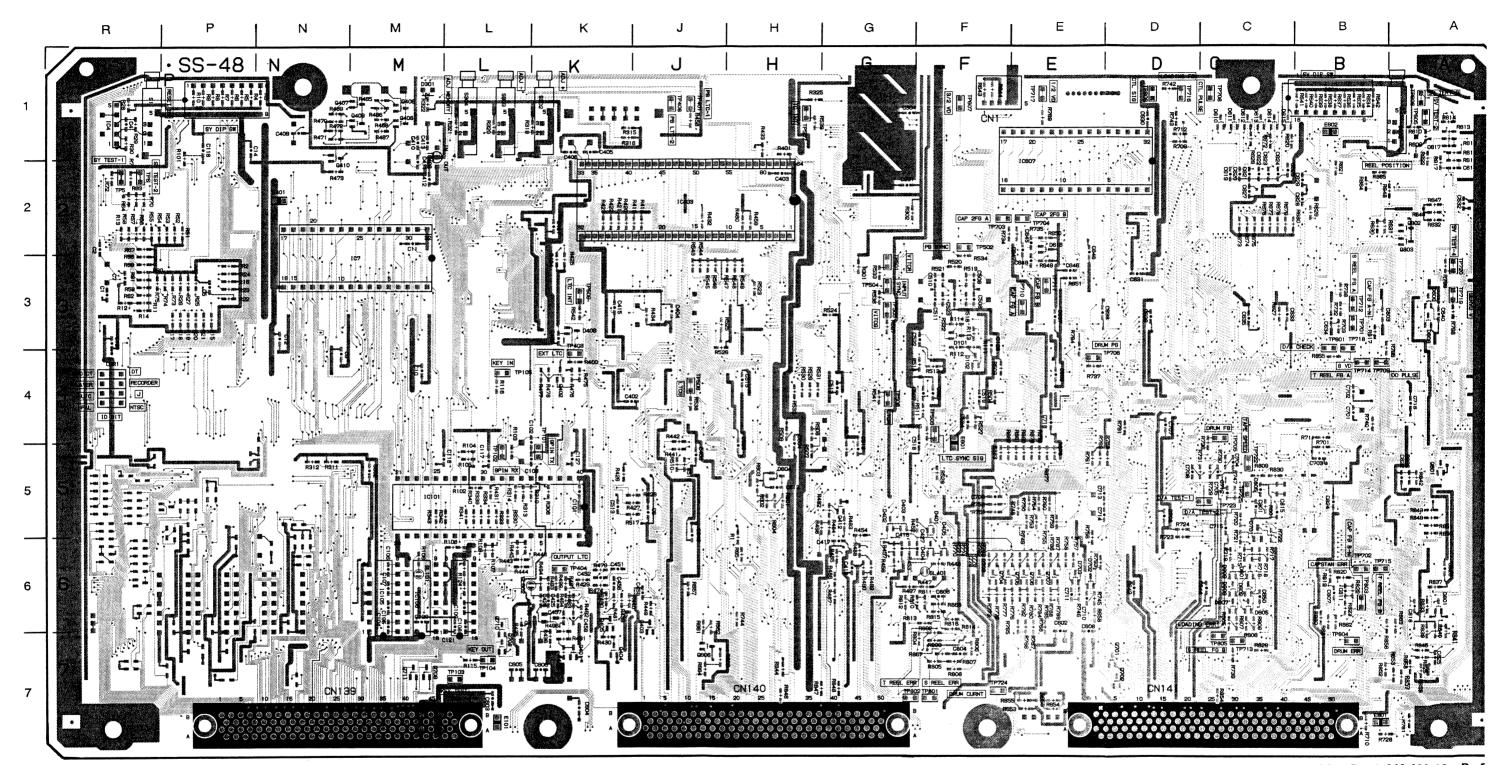


15-13(b)

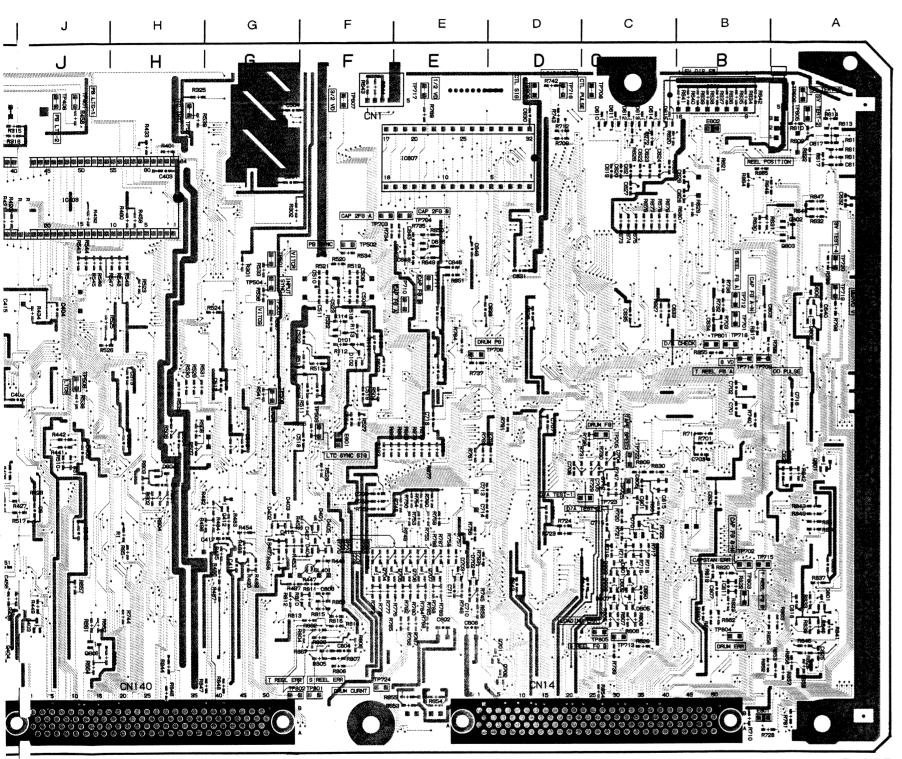
15-13(b)

Serial No.(EK);13101 and higher Serial No.(UC);10001 and higher

SS-48P; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER, CHARACTER GENERATOR



SS-48P



SS-48P 1-640-029-13 B SIDE

SS-48P (1-640-029-13)

CN 1 CN 139 CN 140 CN 141	F-1 N-7 H-7 C-7	IC 402 IC 403 IC 404 IC 405	J-4 J-2 J-3 M-1	*Q 404 *Q 405 *Q 406 *Q 407	K-7 K-6 M-1 M-1
COP 1 COP 2 COP 3 COP 4	R-4 R-4 R-4 R-4	IC 406 IC 407 IC 408 IC 410 IC 411	L-3 J-5 M-1 G-6 K-6	*Q 408 *Q 409 *Q 410 *Q 411 *Q 412	M-1 M-1 N-1 K-6 G-5
COR 1	R-4	IC 412 IC 413	K-6 G-6	Q 604 Q 605	E-7 E-7
CV 401 CV 402	M-1 M-1	IC 414 IC 415 IC 501	K-3 J-6 G-3 G-4	*Q 606 *Q 701 *Q 702	J-7 D-7 D-7
*D 101 *D 102 *D 401 *D 402 *D 403 *D 404 *D 405 *D 406 *D 601 *D 602 *D 603 *D 604	F-3 F-4 F-5 G-5 F-6 F-3 C-6 C-6 H-5	IC 502 IC 504 IC 505 IC 506 IC 507 IC 508 IC 510 IC 511 IC 601 IC 601 IC 603 IC 603	G-4 F-4 H-4 H-4 F-3 H-3 F-3 H-5 C-6 A-1 C-2	*Q 703 *Q 704 *Q 705 *Q 706 *Q 707 *Q 708 *Q 709 *Q 710 *Q 711 *Q 801 *Q 802 *Q 803 Q 805	F-6 F-6 E-6 E-7 M-7 L-7 A-2 A-2 A-4
*D 605 *D 606 *D 607 *D 608 *D 609 *D 610 *D 611	C-6 C-6 A-3 A-3 C-1 C-1	IC 605 IC 606 IC 607 IC 608 IC 609 IC 610 IC 611	B-4 B-3 E-2 C-3 D-3 E-3 D-2	S 1 S 2 S 302 S 303 S 304 S 601 S 602	R-1 P-1 K-1 L-1 L-1 B-1 A-1
*D 613 *D 614 *D 615 *D 616 *D 701 *D 702 *D 703 *D 801	C-1 C-1 C-1 E-2 C-5 E-6 E-6 A-6	IC 613 IC 615 IC 616 IC 618 IC 619 IC 620 IC 621 IC 622 IC 701	E-4 A-2 A-3 D-6 J-5 D-6 E-2 E-2 B-4	TP 6 TP 401 TP 408 TP 708 TP 717 TP 801 TP 802 TP 806	R-2 J-1 J-1 C-1 E-1 F-7 G-7 D-1
E 401 E 601 E 602	N-2 F-5 B-1	IC 702 IC 703 IC 704	A-4 C-5 C-6	X 1 X 101	R-3 L-4
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 10 IC 11 IC 15 IC 101 IC 102 IC 103 IC 104 IC 105 IC 106	P-3 J-5 P-1 R-1 N-3 M-4 M-3 N-3 P-1 R-3 F-3 L-5 M-6 M-6	IC 706 IC 707 IC 709 IC 710 IC 711 IC 801 IC 802 IC 803 IC 804 IC 805 IC 806 IC 807 IC 808 IC 809 IC 810 L 401 L 602	D-4 D-5 E-4 E-5 C-5 F-7 B-6 A-7 B-5 A-6 A-6 N-1 L-7	X 401 X 402 X 501 X 601 X 701 X 702	K-1 M-1 F-3 B-2 B-4 E-5
IC 106 IC 107 IC 301	L-6 G-2	L 603	K-7		
IC 302 IC 303 IC 401	N-5 G-1 L-2	*Q 401 *Q 402 *Q 403	K-7 K-4 J-6		
- B 01BE					

*: B SIDE

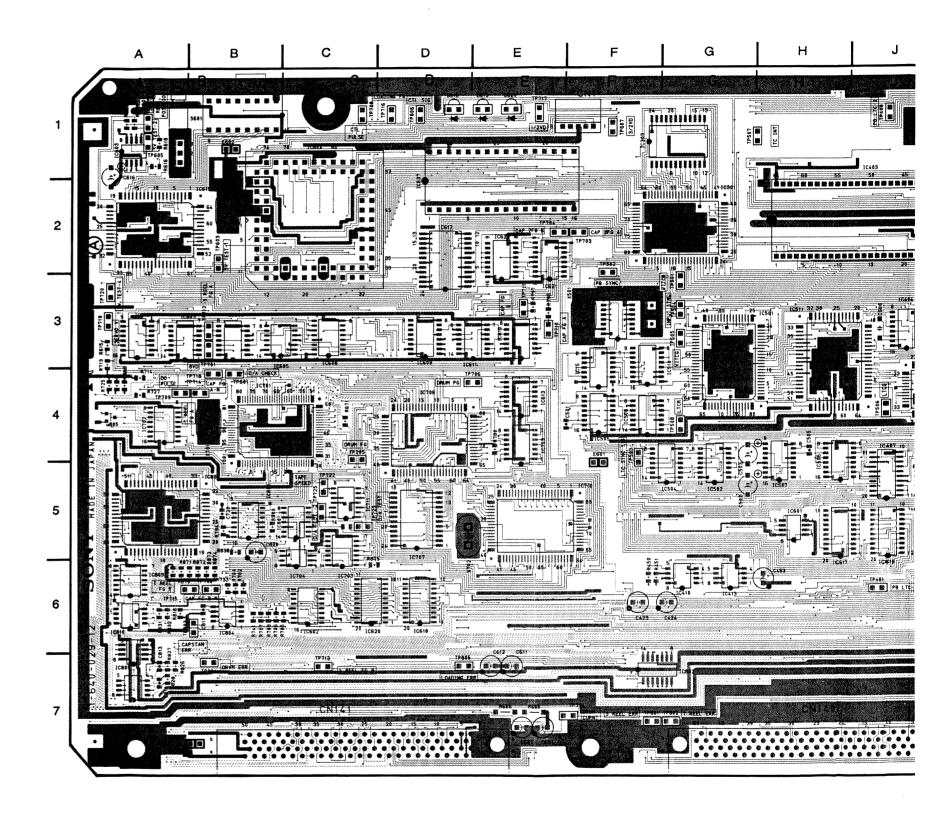
Serial No.(EK);10001 to 13100

SS-48P; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER, CHARACTER GENERATOR

SS-48P (1-6	640-029-1	2)					
CN 1 CN 139 CN 140	F-1 N-7 H-7	IC 401 IC 402 IC 403	L-2 K-4 J-2	*Q 402 *Q 404 *Q 405	K-7 J-7 J-6	TP 703 TP 704 TP 705	F-2 E-2 C-4
CN 141	C-7	IC 404	J-3	*Q 406 *Q 407	M-1 M-1	TP 706 TP 708	D-4 C-1
COR 1	Q-4	IC 405 IC 406 IC 407	N-2 K-3 J-4	*Q 407 *Q 408 *Q 409	M-1 M-1	TP 709 TP 710	A-4 E-3
CV 401	M-1	IC 408	M-2	*Q 410	N-2 K-6	TP 711 TP 712	E-3 B-3
CV 402	M-1	IC 409 IC 410	J-5 G-6	*Q 411 *Q 412	G-5	TP 713	C-7
*D 101 *D 102	F-3 F-4	IC 411 IC 412	K-6 K-6	*Q 601 *Q 602	C-1 C-1	TP 714 TP 715	B-4 A-6
D 301 *D 401	M-1 F-5	IC 413 IC 414	G-6 K-3	*Q 603 *Q 604	C-1 E-7	TP 716 TP 717	D-1 E-1
*D 402	G-5	IC 501	H-3	*Q 605	E-7	TP 718 TP 719	B-4 A-3
*D 403 *D 404	G-5 F-6	IC 502 IC 504	G-5 G-5	*Q 606 *Q 701	J-7 C-4	TP 720	A-3
*D 405 *D 406	F-6 K-4	IC 505 IC 506	F-4 H-5	*Q 702 *Q 703	B-4 F-6	TP 722 TP 723	C-5 C-5
*D 601	C-6	IC 507	H-5	*Q 704	E-6	TP 724	F-7
*D 602 *D 603	C-6 C-6	IC 508 IC 510	F-4 G-4	*Q 705 *Q 706	E-6 E-6	TP 725 TP 801	C-5 F-7
*D 604 *D 605	H-5 C-6	IC 511 IC 514	H-3 F-3	*Q 707 *Q 708	E-6 C-4	TP 802 TP 803	G-7 A-6
*D 606	C-6	IC 601	H-5	*Q 709	C-4	TP 804	B-7
*D 607 *D 608	C-6 A-3	IC 602 IC 603	C-6 A-1	*Q 710 *Q 711	B-4 B-4	TP 805 TP 806	D-7 D-1
*D 609 *D 610	A-3 A-1	IC 604 IC 605	C-1 B-3	*Q 801 *Q 802	A-5 A-2	X 1	Q-2
*D 611	C-2	IC 606	B-3	*Q 803	A-2	X 101 X 401	L-4 K-1
*D 612 *D 613	C-2 C-2	IC 607 IC 608	D-2 C-3	Q 805	A-4	X 501	F-3
*D 614 *D 615	C-2 B-2	IC 609 IC 610	D-3 E-3	S 1 S 2	Q-1 P-1	X 601 X 701	B-2 B-4
*D 616	E-2 D-1	IC 611 IC 612	D-3 D-2	S 302 S 303	K-1 L-1	X 702	D-6
D 618 D 619	E-1	IC 613	E-4	S 304	L-1		
D 620 *D 701	E-1 C-5	IC 615 IC 616	B-2 A-3	S 601 S 602	B-1 A-1		
*D 702 *D 703	D-6 E-6	IC 617 IC 618	H-5 D-6	TP 5	P-2		
*D 801	A-6	IC 619	J-5	TP 6 TP 101	P-2 L-6		
E 101	L-7	IC 620 IC 621	C-6 E-3	TP 102	K-5		
E 401 E 601	N-2 F-4	IC 622 IC 701	E-2 B-4	TP 103 TP 104	L-7 L-7		
E 602 E 801	B-1 A-7	IC 702 IC 703	A-4 C-6	TP 105 TP 401	L-4 J-6		
		IC 704	C-6	TP 402	N-2		
IC 1 IC 2	Q-2 K-5	IC 706 IC 707	D-4 D-5	TP 403 TP 404	K-4 Q-7		
IC 3 IC 4	P-1 Q-1	IC 709 IC 710	E-4 F-5	TP 408 TP 501	J-1 G-3		
IC 5	N-3	IC 711 IC 801	C-5 B-5	TP 502 TP 503	F-2 F-4		
IC 6 IC 7	M-3 M-4	IC 802	G-7	TP 504	G-3		
IC 8 IC 10	N-2 P-1	IC 803 IC 804	A-3 B-6	TP 505 TP 506	G-3 J-4		
IC 11 IC 15	Q-4 F-4	IC 805 IC 806	A-7 B-5	TP 507 TP 508	G-1 G-4		
IC 101	K-5	IC 807	B-5	TP 509	K-3		
IC 102 IC 103	K-5 L-4	IC 808 IC 809	A-7 A-6	TP 601 *TP 602	B-4 B-2		
IC 104 IC 105	L-4 M-7	IC 810	A-6	TP 603 *TP 604	B-2 B-1		
IC 106	M-7	L 401	N-1	TP 605	A-1		
IC 107 IC 301	L-7 G-2	L 602 L 603	L-7 K-7	TP 606 TP 607	A-1 F-1		
IC 302 IC 303	N-4 F-1	*Q 401	K-7	TP 701 TP 702	B-3 B-6		

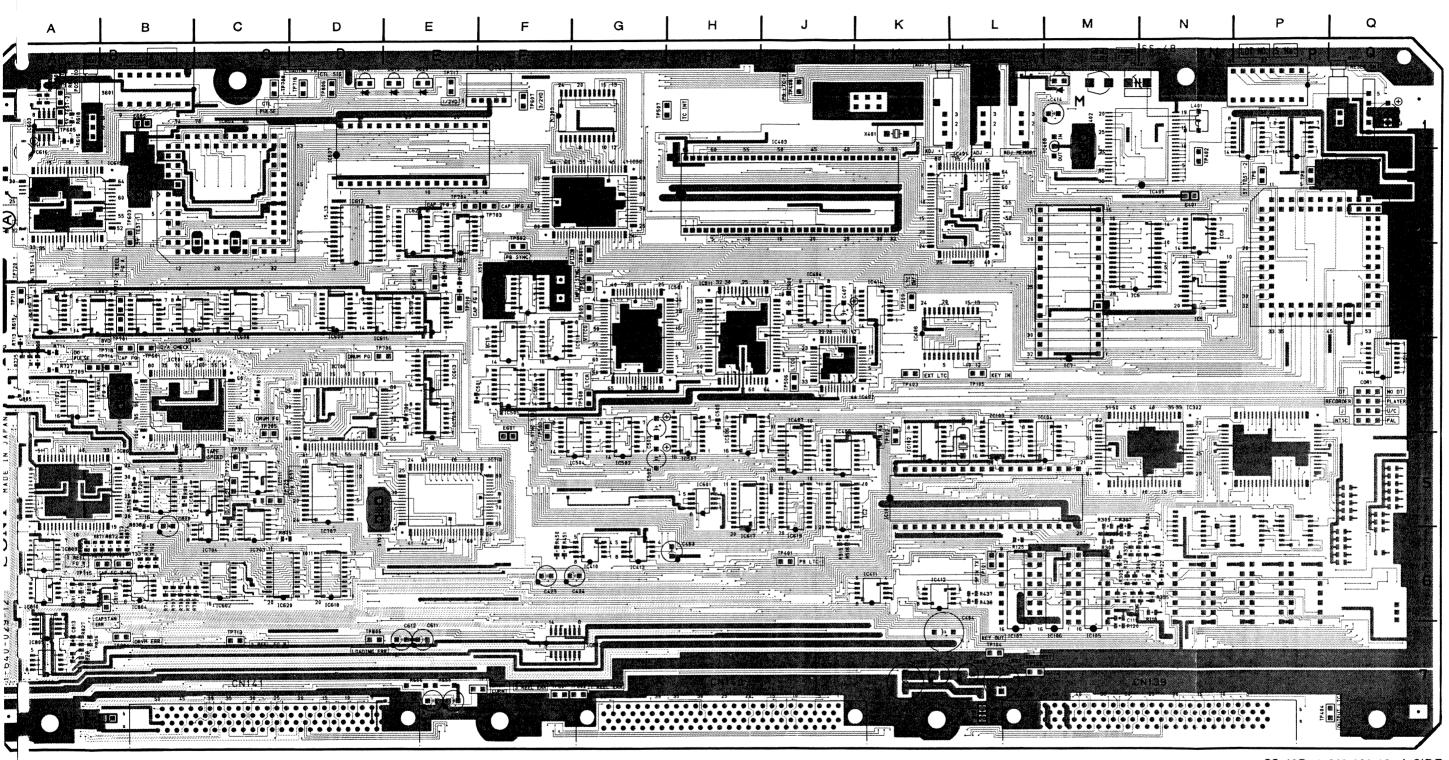
*: B SIDE

SS-48P SS-48P



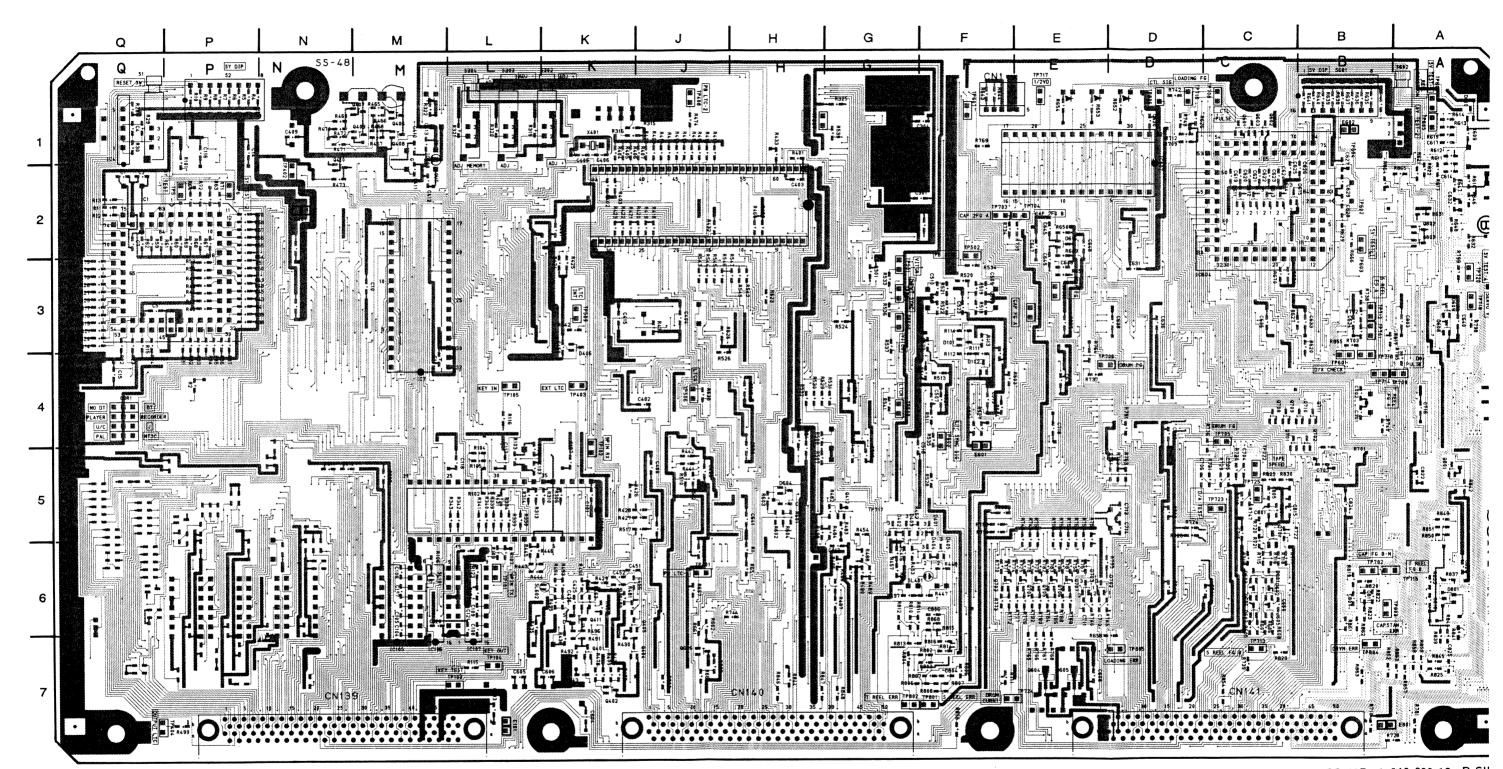
S -48P

13(a)



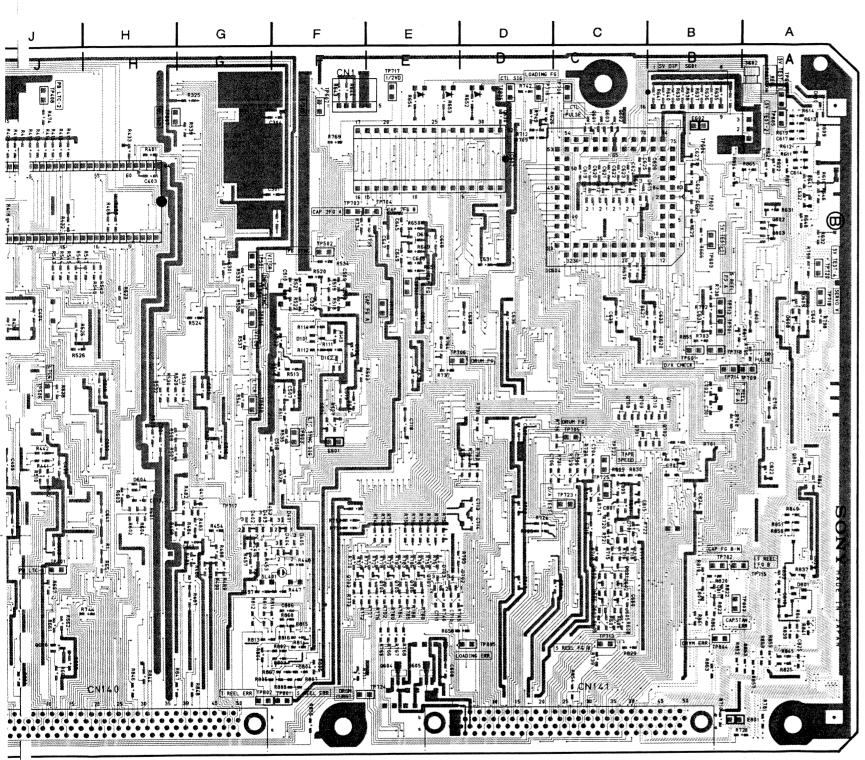
SS-48P 1-640-029-12 A SIDE

SS-48P; SYSTEM CONTROL, SERVO SYSTEM MAIN, TIME CODE READER, CHARACTER GENERATOR



SS-48P 1-640-029-12 B SII

SS-48P SS-48P



SS-48P 1-640-029-12 B SIDE

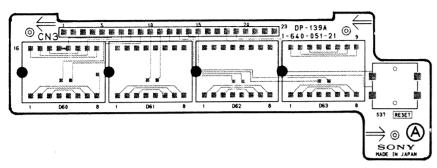
15-14(a)

SS-48P (1-6	640-029-1	12)					
CN 1 CN 139 CN 140 CN 141	F-1 N-7 H-7 C-7	IC 401 IC 402 IC 403 IC 404	L-2 K-4 J-2 J-3	*Q 402 *Q 404 *Q 405 *Q 406	K-7 J-7 J-6 M-1	TP 703 TP 704 TP 705 TP 706	F-2 E-2 C-4 D-4
COR 1	Q-4	IC 405 IC 406 IC 407	N-2 K-3 J-4	*Q 407 *Q 408 *Q 409	M-1 M-1 M-1	TP 708 TP 709 TP 710	C-1 A-4 E-3
CV 401 CV 402	M-1 M-1	IC 408 IC 409 IC 410	M-2 J-5 G-6	*Q 410 *Q 411 *Q 412	N-2 K-6 G-5	TP 711 TP 712 TP 713	E-3 B-3 C-7
*D 101 *D 102 D 301 *D 401 *D 402 *D 403 *D 404 *D 405 *D 406 *D 601 *D 603 *D 604 *D 605 *D 606 *D 607 *D 608 *D 611 *D 612 *D 613 *D 614 *D 615	5-4-1-5-5-5-6-6-4-6-6-6-6-6-6-6-3-3-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	IC 411 IC 412 IC 413 IC 414 IC 501 IC 502 IC 506 IC 507 IC 508 IC 511 IC 511 IC 601 IC 603 IC 604 IC 605 IC 606 IC 607 IC 608 IC 609 IC 609 IC 610	0.6-6-6-3-3-5-5-4-4-5-5-4-4-3-3-5-6-1-1-3-3-2-3-3-3-5-6-1-1-3-3-2-3-3-3-3-5-6-1-1-3-3-2-3-3-3-3-5-6-1-1-3-3-2-3-3-3-3-5-6-1-1-3-3-2-3-3-3-3-5-6-1-1-3-3-2-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3	*Q 601 *Q 602 *Q 603 *Q 604 *Q 605 *Q 701 *Q 702 *Q 703 *Q 704 *Q 705 *Q 706 *Q 707 *Q 708 *Q 709 *Q 710 *Q 711 *Q 801 *Q 802 *Q 803 Q 805 S 1 S 2	CC-1 CC-1 CC-1 CC-1 CC-1 CC-1 CC-1 CC-1	TP 714 TP 715 TP 716 TP 717 TP 716 TP 717 TP 719 TP 720 TP 722 TP 723 TP 724 TP 725 TP 801 TP 802 TP 803 TP 804 TP 805 TP 806 X 1 X 101 X 401 X 501 X 601 X 701	B-4 A-6 D-1-1 B-3 A-3 A-5 F-7 C-5 F-7 G-6 B-7 D-1 Q-4 K-1 B-4 B-4
*D 616 D 618 D 619 D 620 *D 701 *D 702 *D 703 *D 801	E-2 D-1 E-1 E-1 C-5 D-6 E-6 A-6	IC 611 IC 612 IC 613 IC 615 IC 616 IC 617 IC 618 IC 619	D-3 D-2 E-4 B-2 A-3 H-5 D-6 J-5	S 302 S 303 S 304 S 601 S 602 TP 5 TP 6	K-1 L-1 L-1 B-1 A-1 P-2 P-2	X 702	D-6
E 101 E 401 E 601 E 602 E 801	L-7 N-2 F-4 B-1 A-7	IC 620 IC 621 IC 622 IC 701 IC 702 IC 703 IC 704	C-6 E-3 E-2 B-4 A-4 C-6 C-6	TP 101 TP 102 TP 103 TP 104 TP 105 TP 401 TP 402	L-6 K-5 L-7 L-7 L-4 J-6 N-2		
IC 1 IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 10 IC 11 IC 15 IC 101 IC 102 IC 103 IC 104 IC 105 IC 106 IC 107 IC 301 IC 302 IC 303	Q-2 K-5 P-1 N-3 M-4 N-2 P-1 F-4 K-5 L-4 M-7 M-7 L-2 N-1	IC 706 IC 707 IC 709 IC 710 IC 710 IC 711 IC 801 IC 802 IC 803 IC 804 IC 805 IC 806 IC 807 IC 808 IC 809 IC 810 L 401 L 602 L 603	D-4 D-5 E-4 F-5 C-5 B-7 A-3 B-6 A-7 B-5 B-7 A-6 A-6 N-1 K-7	TP 402 TP 403 TP 404 TP 408 TP 501 TP 502 TP 503 TP 505 TP 506 TP 507 TP 508 TP 509 TP 601 *TP 602 TP 603 *TP 605 TP 605 TP 607 TP 607 TP 701 TP 702	K-24 K-27 J-1-3-2-4-3-3-4-1-4-3-4-2-2-1-1-1-3-6 B-1-1-1-3-6 B-1-1-1-3-6		

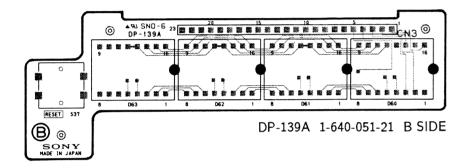
*: B SIDE

DP-139A; TIME CODE DISPLAY

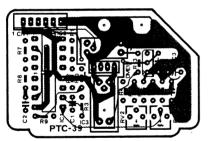
PTC-39; SEARCH DIAL



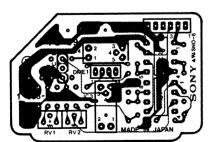
DP-139A 1-640-051-21 A SIDE



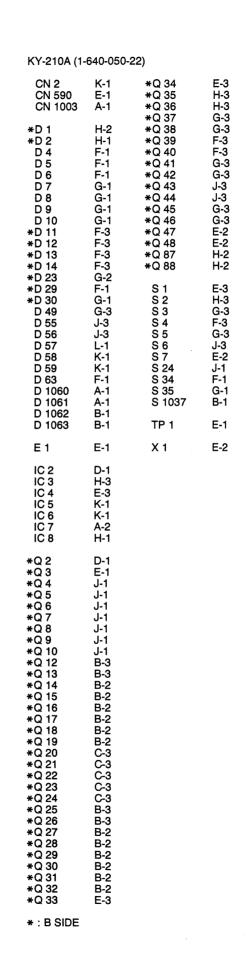
Serial No.(EK);13316 and higher Serial No.(UC);10001 and higher



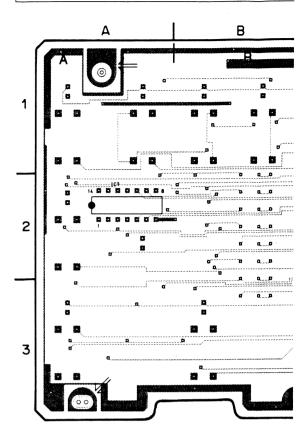
PTC-39 1-633-548-13 A SIDE

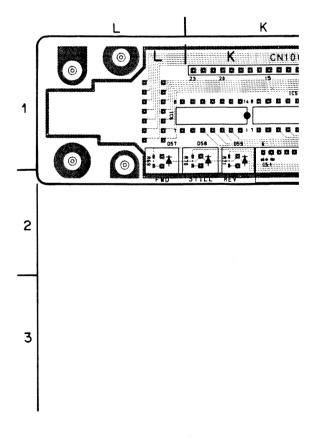


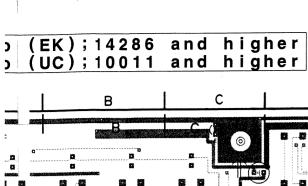
PTC-39 1-633-548-13 B SIDE

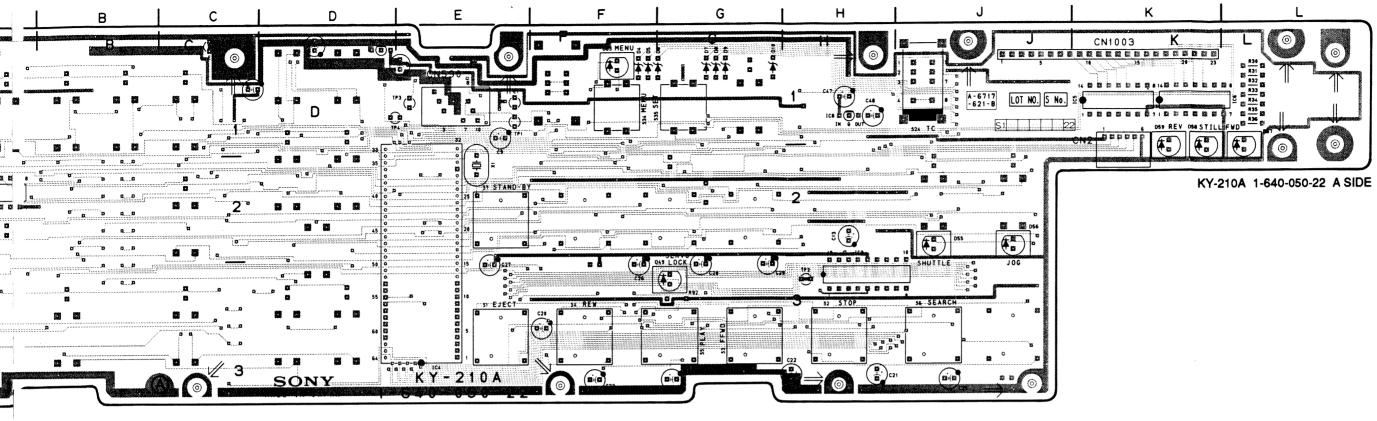


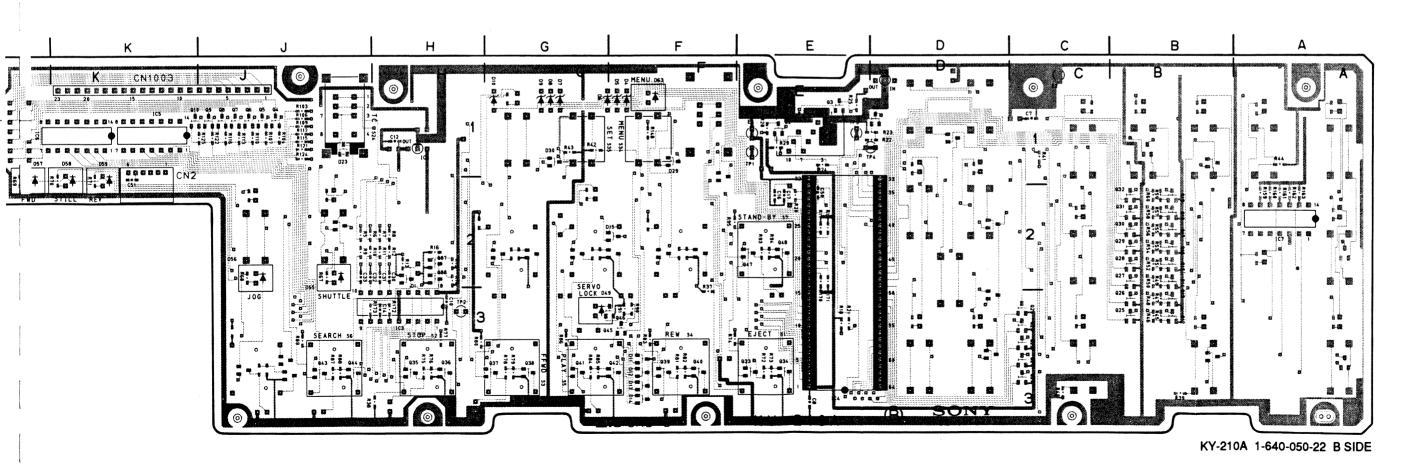
Serial No.(EK);14286 Serial No.(UC);10011







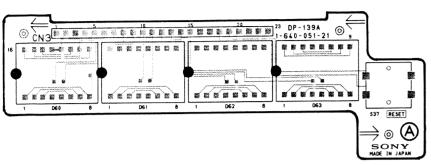




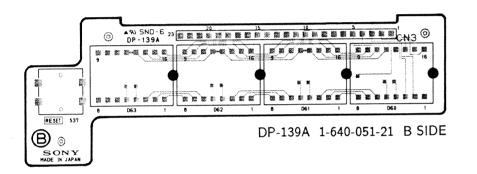
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Serial No.(EK); 10001 to 14285

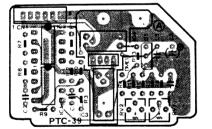
KY-210A ; KEYBOARD DP-139A ; TIME CODE DISPLAY PTC-39 ; SEARCH DIAL



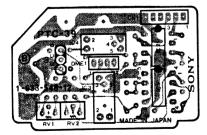
DP-139A 1-640-051-21 A SIDE



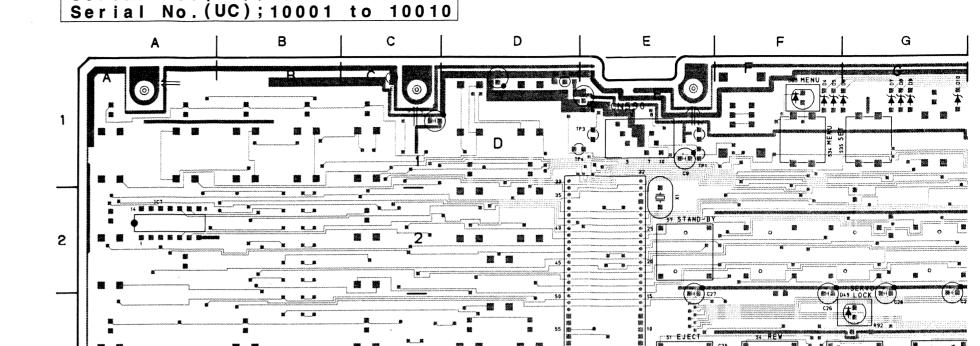
Serial No.(EK);10001 to 13315



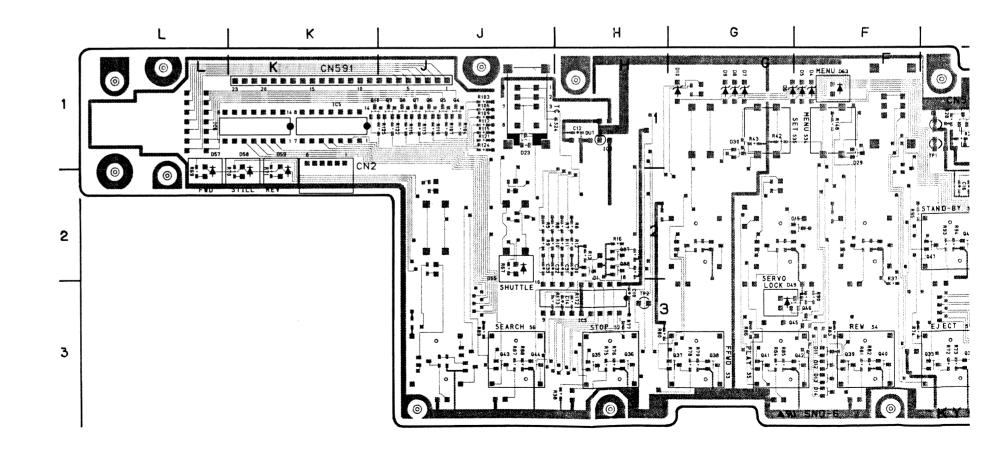
PTC-39 1-633-548-12 A SIDE

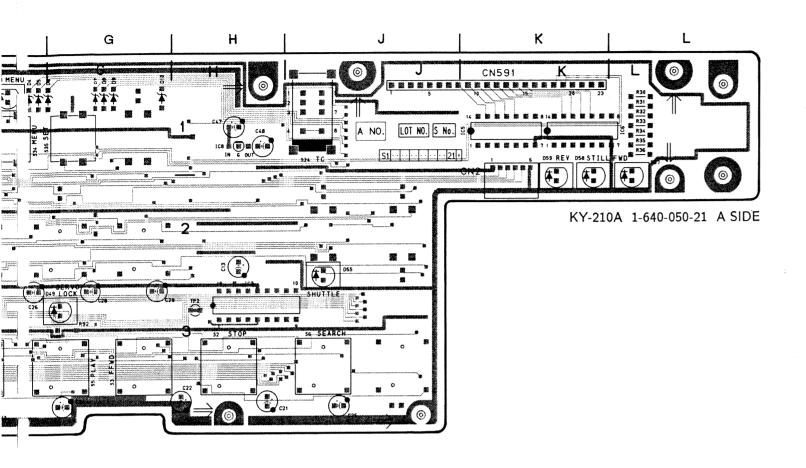


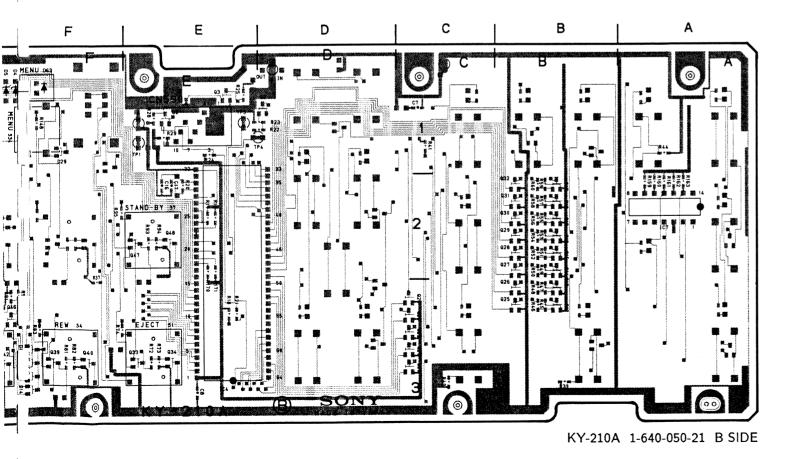
PTC-39 1-633-548-12 B SIDE



SONY





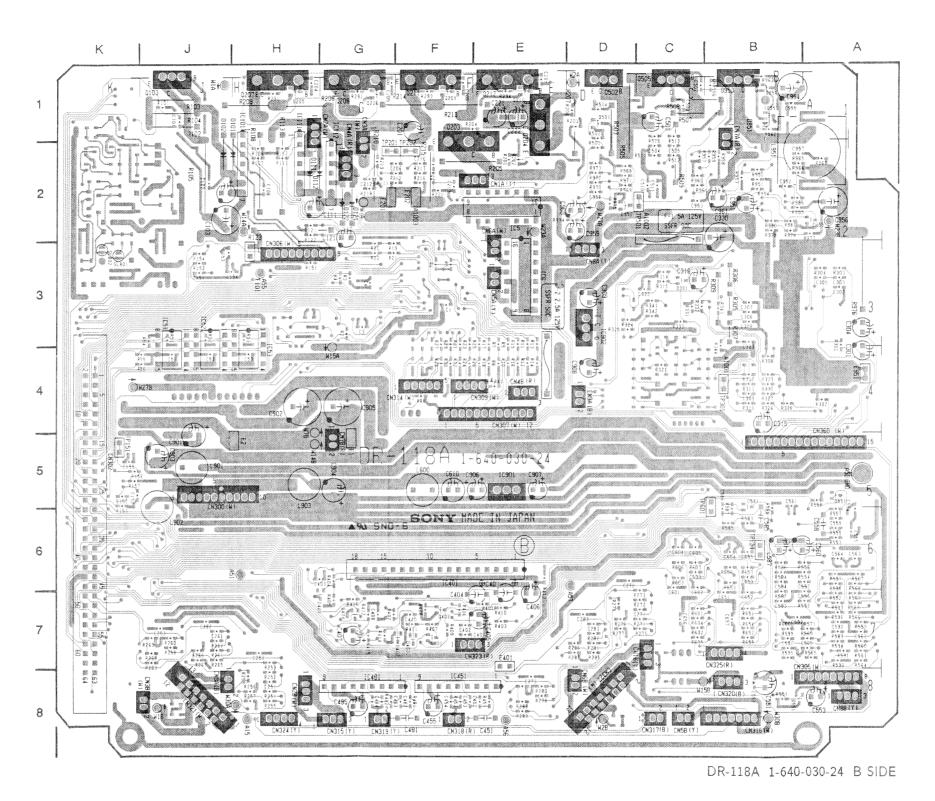


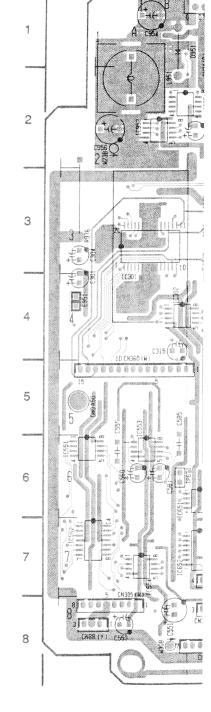
KY-210A (1-	640-050	-21)	
CN 2 CN 590 CN 1003	K-1 E-1 A-1	*Q 31 *Q 32 *Q 33 *Q 34	B-2 B-2 E-3 E-3
*D 1 *D 2 D 4 D 5 D 6 D 7 D 8 D 9 D 10 *D 11 *D 12 *D 13 *D 14 *D 23 *D 29 *D 30 D 49	H-2 H-1 F-1 F-1 G-1 G-1 F-3 F-3 F-3 F-3 G-2 F-1 G-3	*Q 34 *Q 36 *Q 37 *Q 38 *Q 40 *Q 41 *Q 42 *Q 44 *Q 45 *Q 46 *Q 47 *Q 48 *Q 87 *Q 88	+333334545454545454545454545454545454545
D 55 D 57 D 58 D 59 D 63 D 1060 D 1061 D 1062 D 1063	J-3 L-1 K-1 K-1 F-1 A-1 B-1 B-1	S 1 S 2 S 3 S 4 S 5 S 6 S 7 S 24 S 34 S 35	E-3 H-3 G-3 F-3 J-3 E-2 J-1 F-1 G-1
E 1 E 2	E-1 C-1	S 1037 TP 1	B-1 E-1
IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8	D-1 H-3 E-3 K-1 K-1 A-2 H-1	TP 2 TP 3 TP 4	H-3 E-1 E-1
*Q 2 *Q 3 *Q 4 *Q 5 *Q 6 *Q 7 *Q 8 *Q 10 *Q 12 *Q 11 *Q 15 *Q 16 *Q 17 *Q 18 *Q 16 *Q 20 *Q 21 *Q 22 *Q 22 *Q 22 *Q 22 *Q 28 *Q 29 *Q 30 * : B SIDE	D-1 J-1 J-1 J-1 J-1 J-1 J-1 J-1 J-1 J-1 J		

15-15(a)

DR-118A; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFER, CTL PB, ADJUST DATA STORAGE

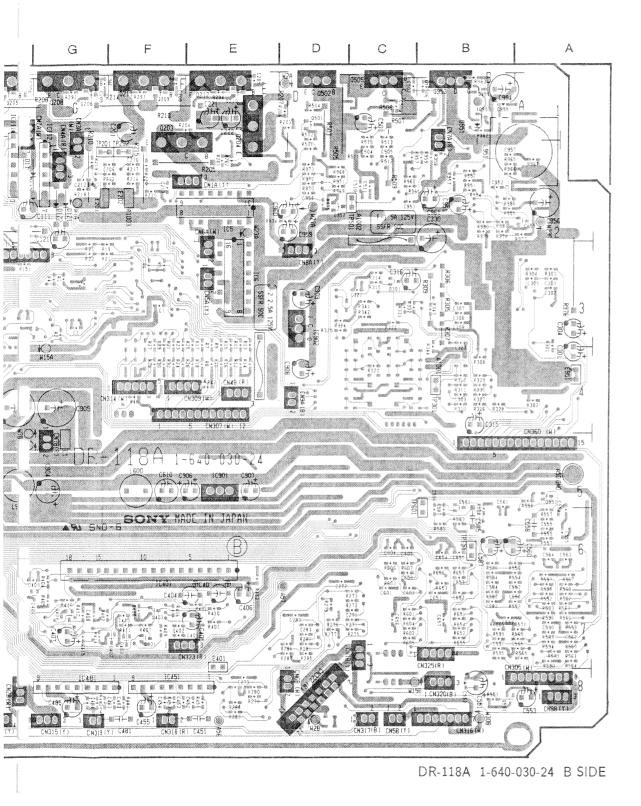
DR-118A CN 118A CN 118A CN 118A CN 128B CN 23A CN 23A CN 25A C	(1-640-03) E-C-7-1-8-2-8-2-4-3-8-2-5-3-8-4-8-5-5-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8	IC 54 IC 101 IC 111 IC 112 IC 151 IC 152 IC 251 IC 252 IC 253 IC 271 IC 272 IC 273 IC 301 IC 302 IC 304 IC 305 IC 401 IC 403 IC 403 IC 404 IC 405 IC 451 IC 451 IC 551 IC 551 IC 551 IC 552 IC 553 IC 554 IC 601 IC 602 IC 601 IC 602 IC 901 IC 902 IC 901	H-11 H-11 J-5-2-8-7-7-8-7-4-4-3-3-6-7-6-7-6-7-6-7-6-7-6-7-6-7-6-7-6-7	Q 505 *Q 551 *Q 951 *Q 952 Q 953 Q 954 Q 955 TP 151 TP 201 TP 202 TP 301 TP 501 TP 651	C-1 B-8 B-1 B-1 D-2 A-2 K-5-2 B-6 B-6
D 101 D 102 D 1111 D 121 D 122 *D 301 *D 401 *D 402 *D 403	H-1 J-1 H-2 G-2 G-2 C-3 G-7 F-7	L 600 L 901 L 902 L 903 L 951	B-2 D-2 F-5 J-5 J-5 H-5 B-2		
*D 551 *D 581 D 951 *D 952	A-5 A-6 B-1 D-2	Q 102 Q 103 Q 201 Q 202	J-2 J-1 E-1 D-2		
E 1 E 2 E 101 E 201 E 401 E 951	G-5 H-5 H-3 G-2 E-8 A-4	Q 203 Q 204 *Q 205 *Q 206 Q 207 Q 208 *Q 209 *Q 210	F-1 E-1 H-1 G-1 H-1 G-1 F-1		
F 1 F 2	C-2 E-4	Q 211 Q 212	F-1 E-1		
IC 1 IC 5 IC 6 IC 51 IC 52 IC 53	F-3 E-2 E-3 J-3 J-3 H-4	*Q 401 *Q 402 *Q 404 *Q 501 Q 502 Q 503 Q 504	F-7 F-7 G-7 D-1 D-1 C-1		

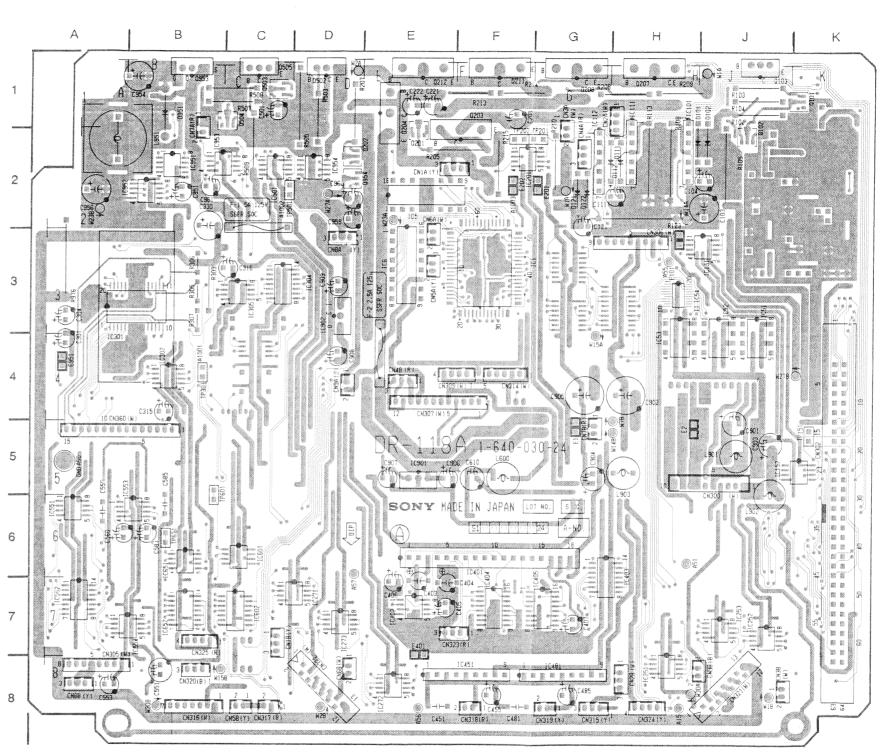




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[**3-118A**

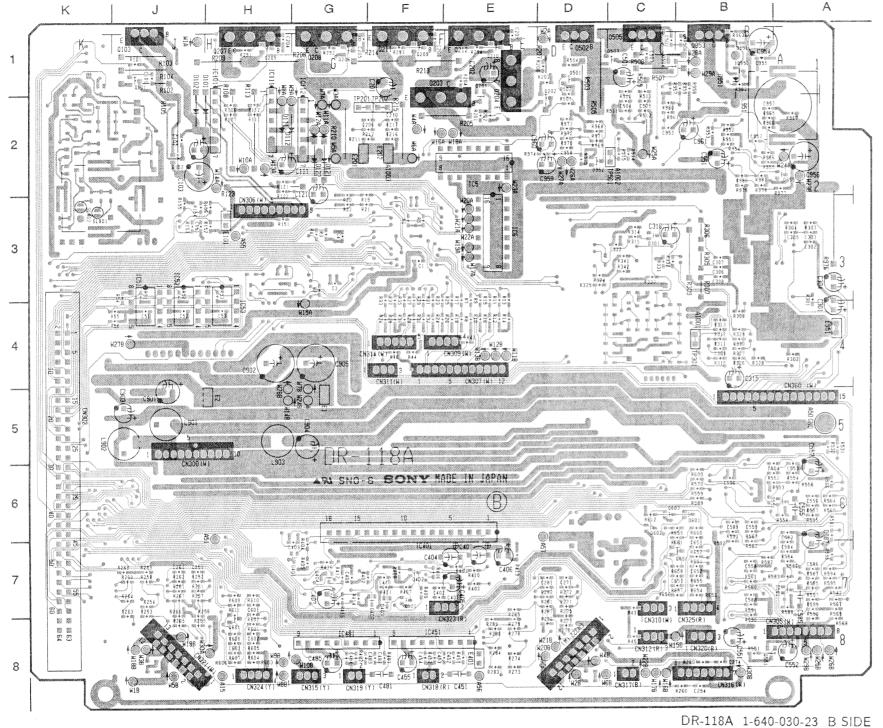


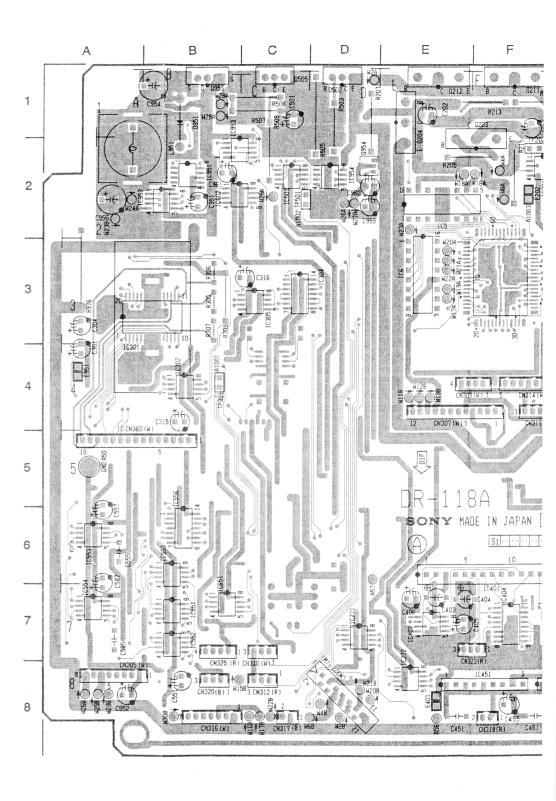


DR-118A 1-640-030-24 A SIDE

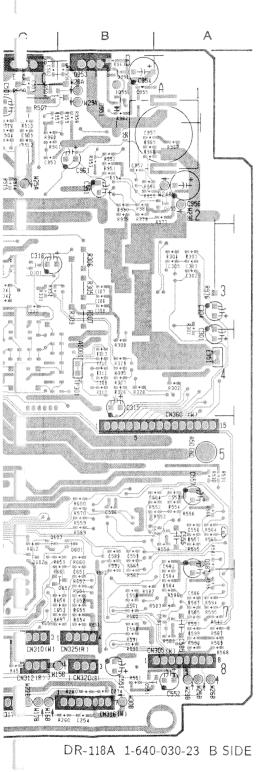
DR-11

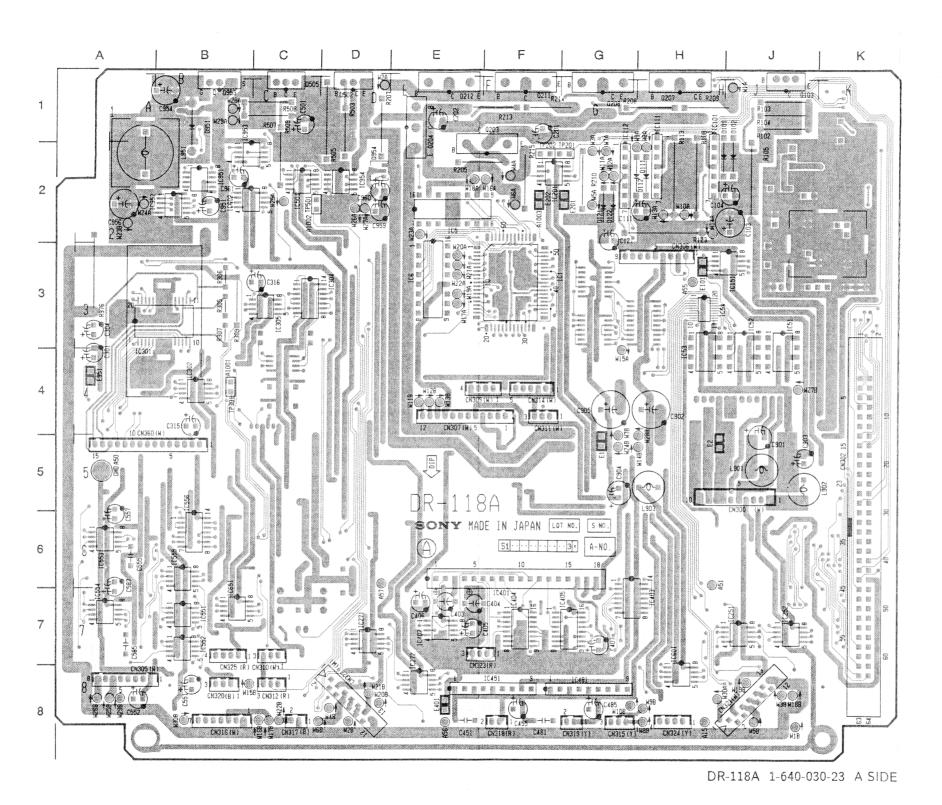
DR-118A; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFER, CTL PB, ADJUST DATA STORAGE





DR-118A





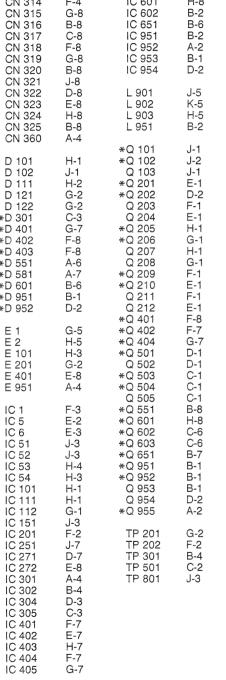
DR-118A (1-640-030-23)

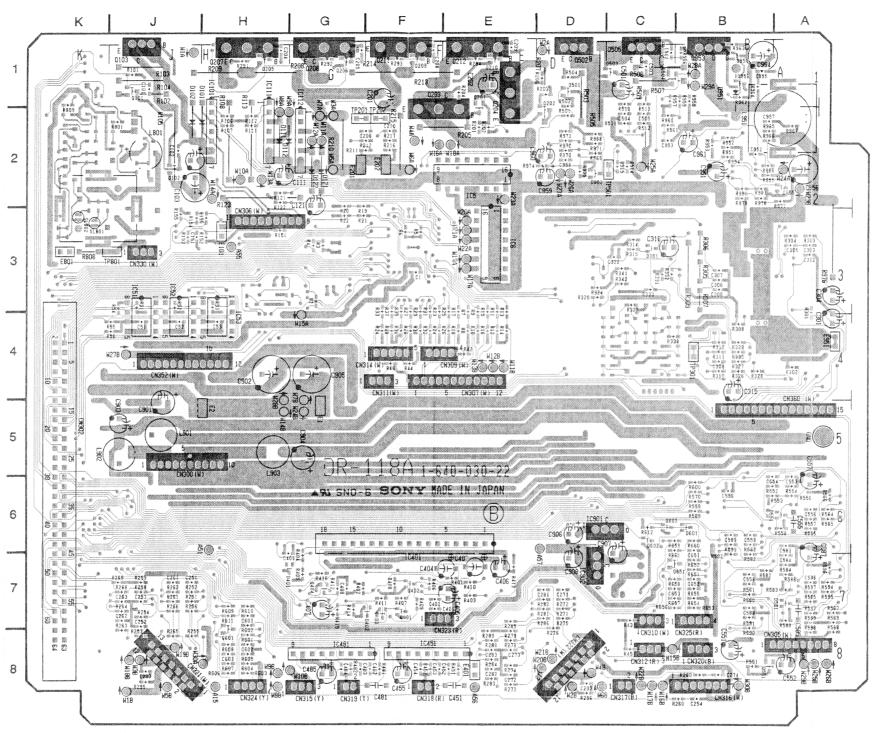
DH-118A ((1-640-03	0-23)	
CN 300 CN 302 CN 305 CN 306 CN 307 CN 309 CN 310 CN 312 CN 314 CN 315 CN 316 CN 317 CN 318 CN 320 CN 321 CN 322 CN 323 CN 323 CN 325 CN 360	J-5-5-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-	IC 401 IC 402 IC 403 IC 404 IC 405 IC 451 IC 551 IC 551 IC 553 IC 554 IC 555 IC 556 IC 601 IC 602 IC 651 IC 951 IC 953 IC 953 IC 954	F-7 E-7 H-7 F-7 G-8 G-8 C-2 B-7 A-6 A-7 B-6 B-5 B-2 B-7 B-2 B-7
D 101 D 102 D 111 D 121 D 122	H-1 J-1 H-2 G-2 G-2 C-3	L 901 L 902 L 903 L 951	J-5 K-5 H-5 B-2
D 301 D 401 D 402 D 403 D 551 D 581 D 601 D 951 D 952	G-7 F-8 F-8 A-6 A-7 B-6 B-1 D-2	*Q 101 *Q 102 Q 103 *Q 201 *Q 202 Q 203 Q 204 *Q 205	J-1 J-2 J-1 E-1 D-1 F-1 H-1
E 1 E 2 E 101 E 201 E 401 E 951	G-5 H-5 H-3 G-2 E-8 A-4	*Q 206 Q 207 Q 208 *Q 209 *Q 210 Q 211 Q 212	G-1 H-1 G-1 E-1 E-1
F 1 F 2	C-7 H-4	*Q 401 *Q 402 *Q 404	F-8 F-7 G-7
IC 1 IC 5 IC 6 IC 51 IC 52 IC 53 IC 54 IC 101 IC 111 IC 112 IC 151 IC 201 IC 251	F-3 E-2 E-3 J-3 J-3 H-4 H-3 H-1 H-1 G-1 J-3 F-2 J-7	*Q 501 Q 502 *Q 503 *Q 504 Q 505 *Q 551 *Q 601 *Q 602 *Q 603 *Q 651 *Q 951 *Q 952 Q 953 Q 954	D-1 D-1 C-1 C-1 B-8 H-8 C-6 B-7 B-1 B-1 D-2
IC 271 IC 272 IC 301 IC 302 IC 304 IC 305	D-7 E-8 A-4 B-4 D-3 C-3	TP 201 TP 202	G-2 F-2

DR-118A; MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFER, CTL PB, ADJUST DATA STORAGE

DR-118A (1-640-030-22) F-8 G-8 C-2 B-7 CN 300 IC 451 CN 302 CN 305 IC 481 IC 501 K-5 A-8 H-3 E-4 C-8 F-4 C-8 F-4 G-8 B-8 G-8 B-8 CN 306 IC 551 B-7 CN 307 CN 309 A-6 A-7 B-6 CN 310 CN 311 CN 312 CN 314 IC 601 CN 315 IC 602 CN 316 IC 651 CN 317 CN 318 IC 951 IC 952 CN 318 CN 319 CN 320 CN 321 CN 322 CN 323 CN 324 CN 325 IC 953 IC 954 J-8 D-8 E-8 H-8 B-8 A-4 L 901 L 902 L 903 L 951 CN 360 *Q 101 *Q 102 Q 103 *Q 201 D 101 D 102 D 111

J-1 H-2 G-2 G-3 G-7 F-8 F-8 A-6 A-7 B-6 *Q 202 D 121 Q 203 D 122 *D 301 Q 204 *Q 205 *D 401 *Q 206 *D 402 *D 403 Q 207 *D 551 Q 208 *D 581 *Q 209 *D 601 *Q 210 B-1 D-2 *D 951 Q 211 *D 952 Q 212 *Q 401 *Q 402 *Q 404 E 101 *Q 501







2

3

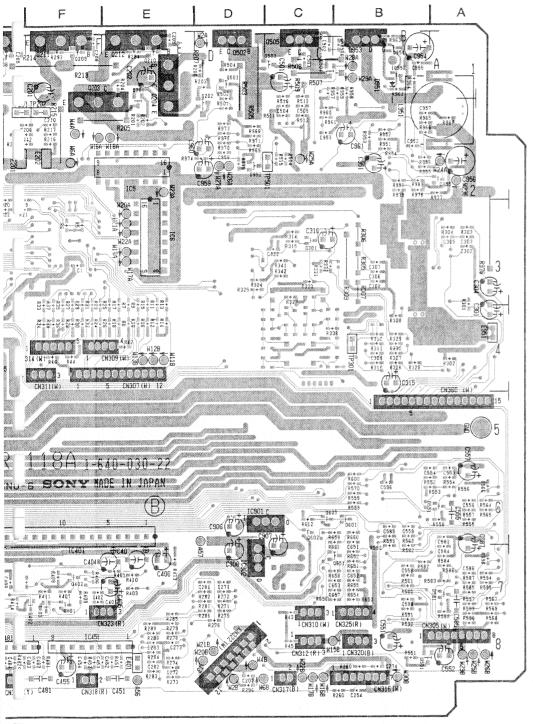
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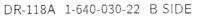
183

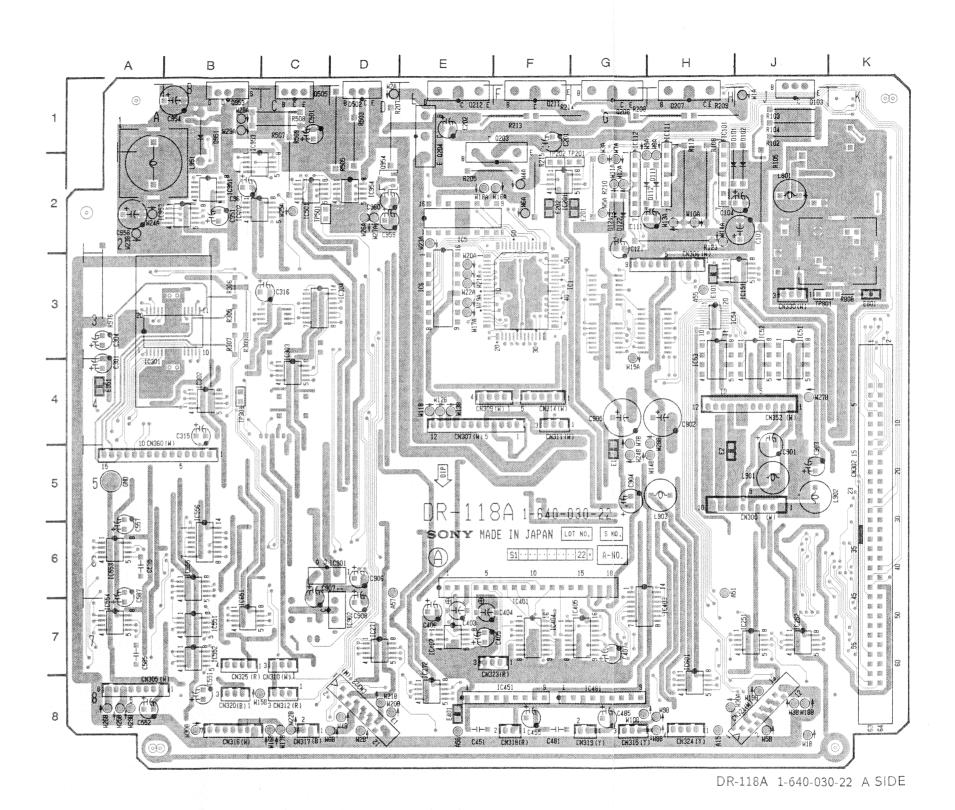
L. ER,

5-16(a)

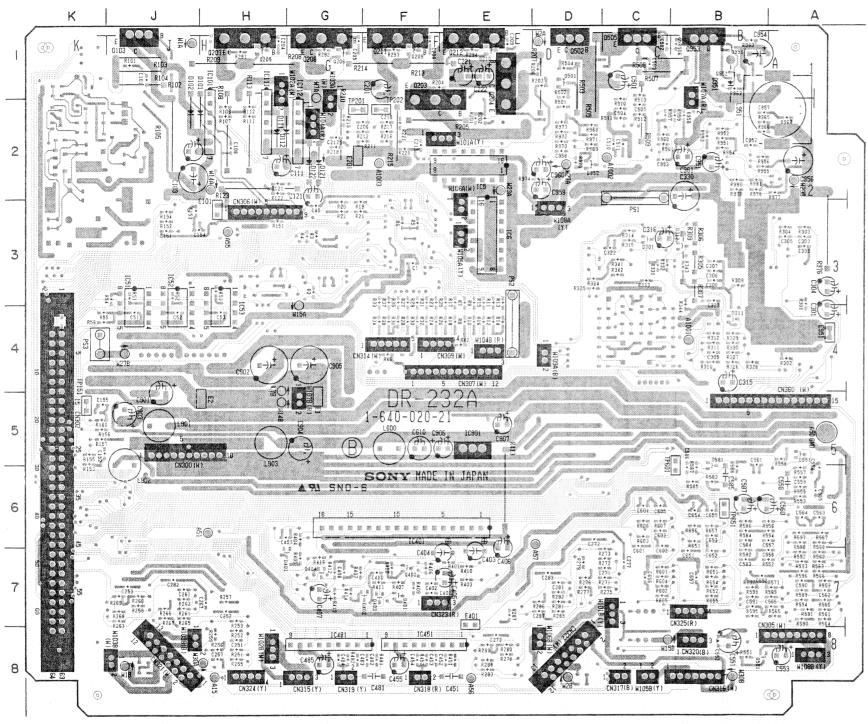
D 1-118A



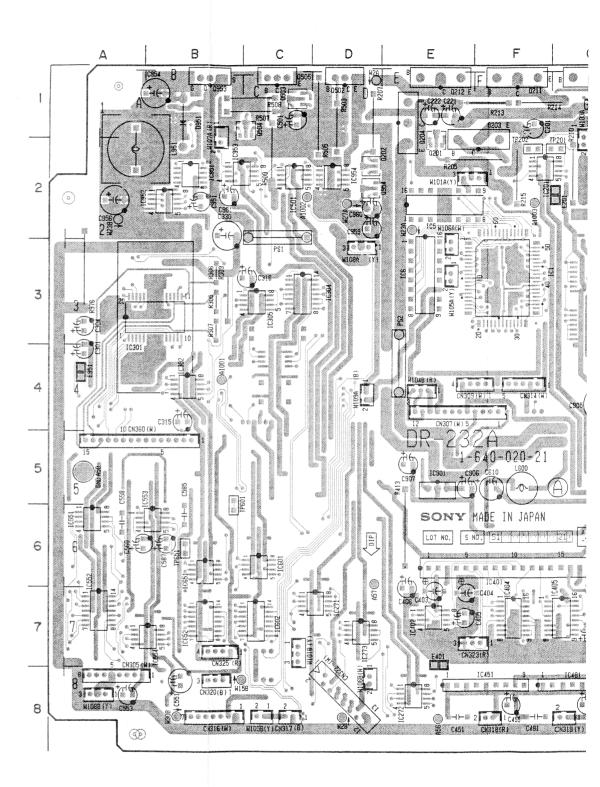


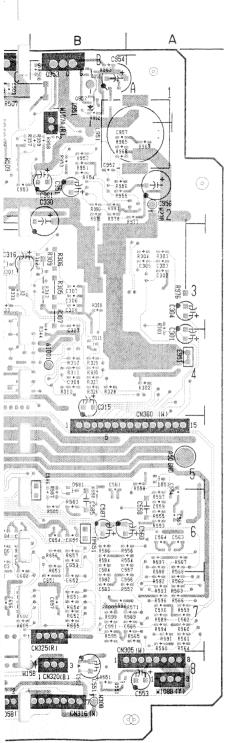


DR-232A: MOTOR DRIVER, SOLENOID DRIVER, SENSOR INPUT, TENSION AMPLIFIER, FG AMPLIFER, CTL PB, ADJUST DATA STORAGE

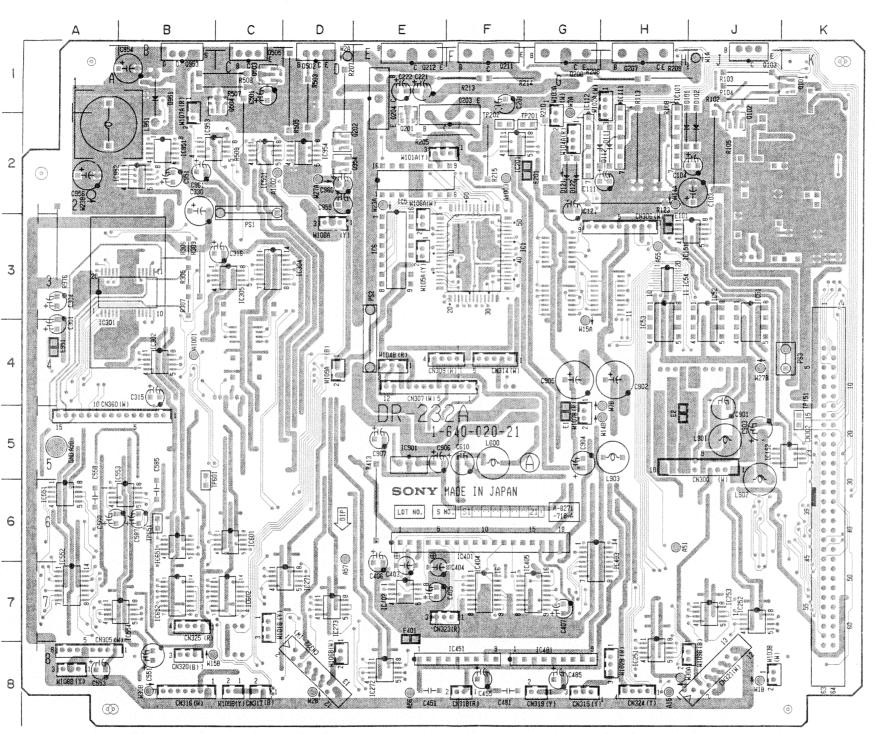


DR-232A 1-640-020-21 B SIDE





DR-232A 1-640-020-21 B SIDE

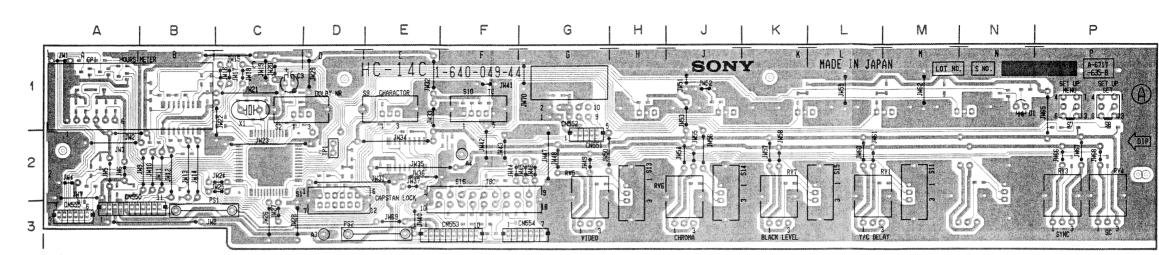


DR-232A 1-640-020-21 A SIDE

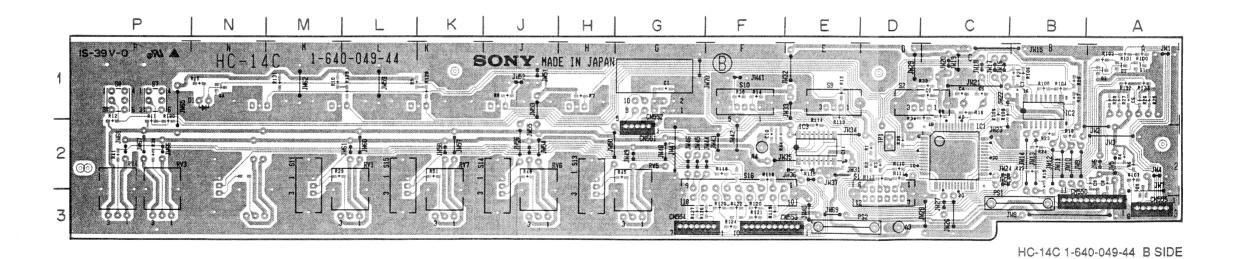
DR-232A (1-640-020-	-21)	
CN 300 CN 302 CN 305 CN 305 CN 306 CN 307 CN 314 CN 315 CN 316 CN 317 CN 318 CN 319 CN 320 CN 321 CN 322 CN 323 CN 324	J-6 K-5 A-8 H-4 E-4 F-8 B-8 C-8 G-8 B-8 J-8 DE-7 H-8	IC 451 IC 481 IC 501 IC 551 IC 552 IC 553 IC 554 IC 601 IC 602 IC 651 IC 652 IC 901 IC 951 IC 953 IC 954	F-8 G-8 C-2 A-6 A-7 A-5 B-7 C-6 B-7 E-5 B-2 A-2 D-2
CN 325 CN 360 D 101 D 102	B-7 A-5 H-1 J-1	L 600 L 901 L 902 L 903 L 951	F-5 J-6 J-6 H-6 B-2
D 111 D 112 D 121 D 122 *D 301 *D 311 *D 312 *D 401 *D 402 *D 403 *D 551 *D 951 *D 952	H-2 H-2 G-2 G-3 B-4 B-3 G-7 F-7 A-5 B-5 B-1 D-2	Q 101 Q 102 Q 103 Q 201 Q 202 Q 203 Q 204 *Q 205 *Q 206 Q 207 Q 208 *Q 209 *Q 210 Q 211	K-1 J-2 J-1 E-2 D-2 F-1 G-1 H-1 G-1 F-1
IC 1 IC 5 IC 6 IC 51 IC 52 IC 53 IC 54 IC 101 IC 111 IC 112 IC 1551 IC 252 IC 253 IC 251 IC 252 IC 253 IC 277 IC 272 IC 273 IC 301 IC 302 IC 302 IC 305 IC 401 IC 402 IC 403 IC 404 IC 405	F-3 E-2 E-3 J-4 H-4 H-1 H-1 J-3 J-7 D-8 D-7 A-4 B-3 C-6 E-7 F-7 G-7	Q 212 *Q 401 *Q 402 *Q 404 *Q 501 Q 502 Q 503 Q 504 Q 505 *Q 551 *Q 951 *Q 953 Q 954	E-1 F-7 F-7 G-7 D-1 C-1 C-1 B-8 B-1 B-1 D-2

HC-14C; SUB-CONTROL PANEL

HC-14C (1-640-049-44) CN 550 CN 551 CN 552 CN 553 CN 554 CN 555 A-3 G-2 G-2 F-3 G-3 A-3 A-1 CP 1 D 1 N-1 *IC 1 *IC 2 *IC 3 *Q1 *Q2 *Q3 *Q4 *Q5 A-1 A-1 A-1 N-1 A-2 L-2 P-2 P-2 G-2 J-2 K-2 RV 1 RV 3 RV 4 RV 5 RV 6 RV 7 S 1 S 2 S 7 S 8 S 9 S 10 S 11 S 13 D-2 C-1 P-1 P-1 E-1 F-1 M-2 H-2 J-2 L-2 F-2 S 14 S 15 S 16 X 1 C-1

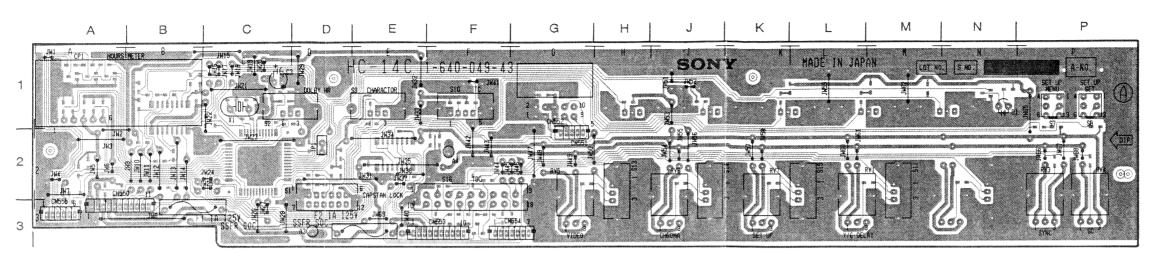


HC-14C 1-640-049-44 A SIDE

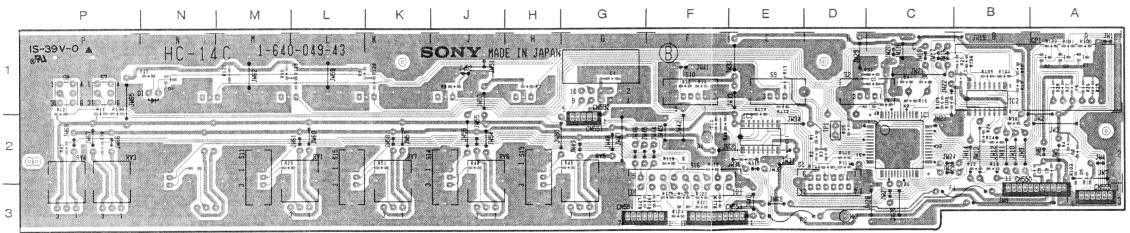


HC-14C; SUB-CONTROL PANEL

Serial No.(EK);11151 to 14285 Serial No. (UC); 10001 to 10010



HC-14C 1-640-049-43 A SIDE



HC-14C 1-640-049-43 B SIDE

HC-14C (1-640-049-43) A-3 G-2 G-2 F-3 G-3 A-3 CP 1 A-1 D 1 N-1 F 1 F 2 B-3 E-3 C-2 *IC 2 *IC 3 B-1 E-2 *Q1 *Q2 *Q3 *Q4 *Q5 A-1 A-1 A-1 N-1 A-2 L-2 P-2 P-2 G-2 J-2 K-2 S 1 S 2 S 7 S 8 S 9 S 10 S 11 D-2 C-1 P-1 E-1 F-1 M-2 H-2 J-2 L-2 F-2 S 15 TP 1 D-2 X 1 C-1

Serial No.(EK); 10151 to 11150

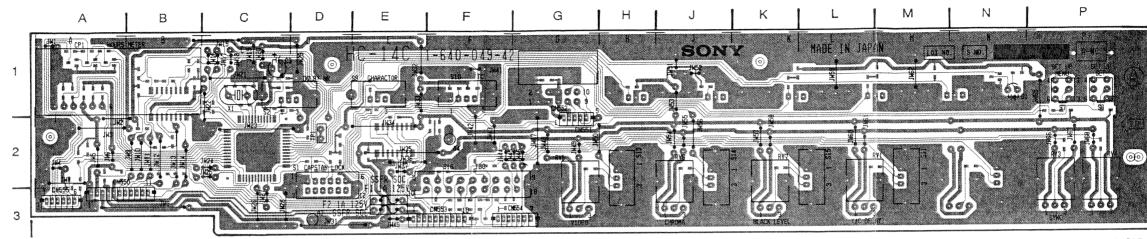
HC-14C; SUB-CONTROL PANEL

HC-14C (1-640-049-42)

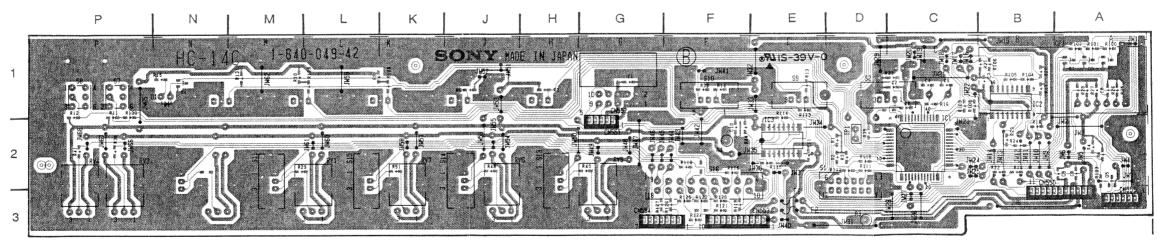
CN 550 CN 551 CN 552 CN 553 CN 554 CN 555 A-3 G-2 G-2 F-3 G-3 A-3 CP 1 A-1 D 1 N-1 F 1 F 2 E-3 E-3 *IC 1 *IC 2 *IC 3 C-2 B-1 E-2 *Q1 *Q2 *Q3 *Q4 *Q5 A-1 A-1 A-1 N-1 A-2 L-2 P-2 P-2 G-2 J-2 K-2 RV 1 RV 3 RV 4 RV 5 RV 6 RV 7 D-2 C-1 P-1 P-1 E-1 F-1 M-2 H-2 J-2 L-2 F-2 \$1 \$2 \$7 \$8 \$9 \$10 \$11 \$13 \$14 \$15 \$16 D-2 TP 1

C-1

X 1 * : B SIDE



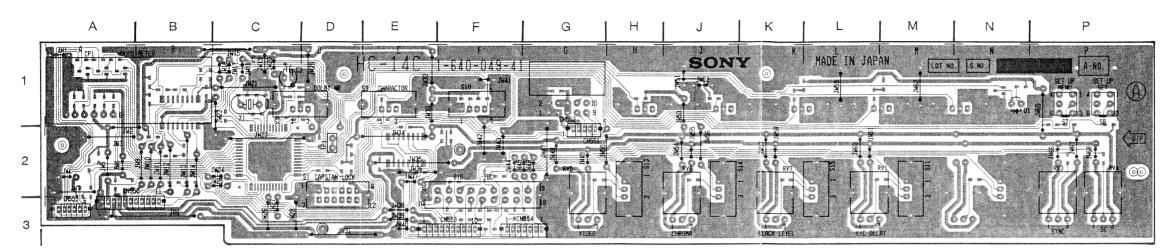
HC-14C 1-640-049-42 A SIDE



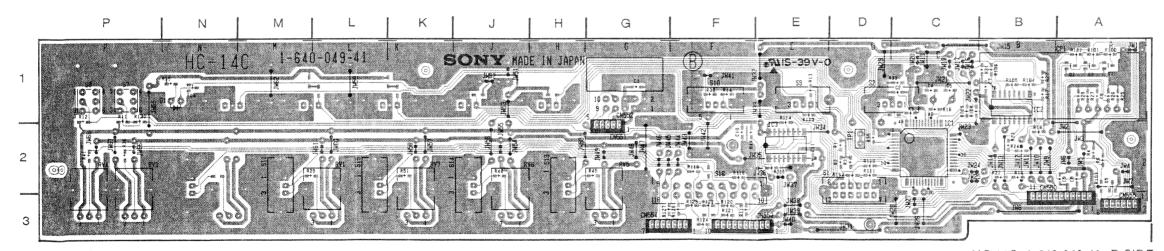
HC-14C 1-640-049-42 B SIDE

Serial No.(EK); 10001 to 10150

HC-14C; SUB-CONTROL PANEL



HC-14C 1-640-049-41 A SIDE



HC-14C 1-640-049-41 B SIDE

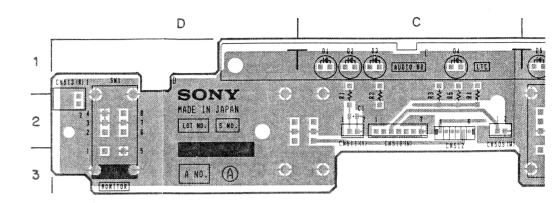
HC-14C (1-6	40-049-41)
CN 550 CN 551 CN 552 CN 553 CN 554 CN 555	A-3 G-2 G-2 F-3 G-3 A-3
CP 1	A-1
D 1	N-1
*IC 1 *IC 2 *IC 3	C-2 B-1 E-2
*Q1 *Q2 *Q3 *Q4 *Q5	A-1 A-1 A-1 N-1 A-2
RV 1 RV 3 RV 4 RV 5 RV 6 RV 7	L-2 P-2 P-2 G-2 J-2 K-2
\$ 1 \$ 2 \$ 7 \$ 8 \$ 9 \$ 10 \$ 11 \$ 5 \$ 14 \$ 5 \$ 16	D-2 C-1 P-1 P-1 E-1 M-2 H-2 J-2 L-2 F-2
TP 1	D-2
X 1	C-1
* : B SIDE	

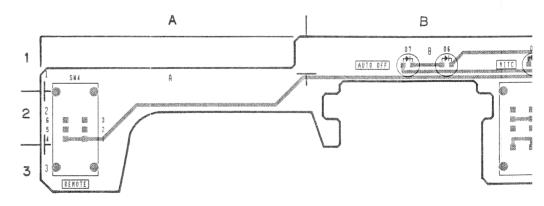
SW-444A

SW-444A; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER

SW-444A (1-640-043-21)

D 1 D 2 D 3 D 4 D 5 D 6 D 7 C-1 C-1 C-1 B-1 B-1 B-1

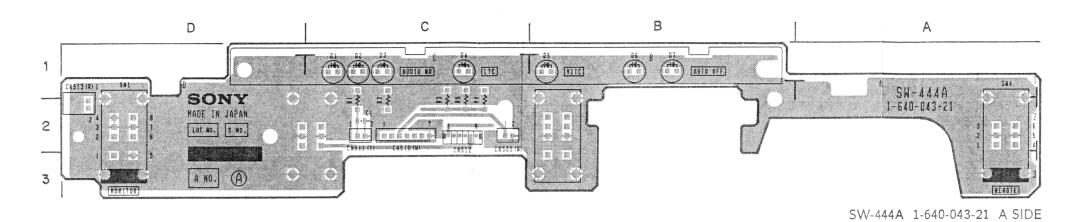


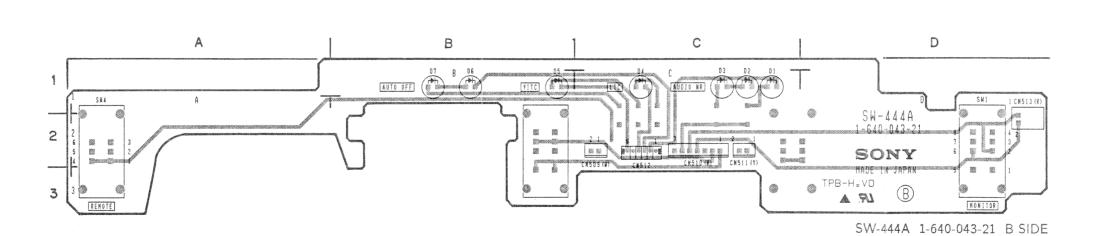


SW-444A; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER

SW-444A (1-640-043-21)

D 1	C-1
D 2	C-1
D 3	C-1
D 4	C-1
D 5	B-1
D 6	B-1
D 7	B-1





DE-15 1-622-606-12 A SIDE

FRAME(1

SONY

RM-82: REEL MOTOR

PTC-42 : CASSETTE SIZE SENSOR PTC-43: REC INHIBIT SENSOR PTC-49: THREADING MOTOR PTC-54: THREADING FG

PTC-55; CASSETTE INFORMATION SENSOR (TAPE THICKNESS, REEL HUB DIAMETER, METAL/OXIDE)

PD-56; PINCH/CLEANING SOLENOID CONNECTION, REEL FG CHECK

DS-31: CONDENSATION SENSOR TR-73; S/T TENSION SENSOR

DE-15; REEL FG SE-186; REEL FG

LP-57; CASSETTE ILLUMINATION

PC-62; CASSETTE IN/LARGE CASSETTE SENSOR

CL-25; CASSETTE COMPARTMENT (CASSETTE LOADING BEGIN/NEAR-END SENSOR,

00000000

PTC-49 1-640-164-11 A SIDE

LP-57 CONNECTION, CASSETTE LOADING MOTOR)

AC-133; AC LINE FILTER, FUSE



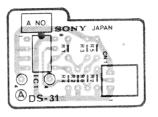
-640-164-11

SONY MADE IN JAPAN LOT NO. S No.

PTC-54 1-640-163-11 A SIDE

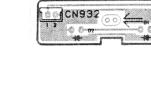
PTC-55 1-640-165-11 A SIDE

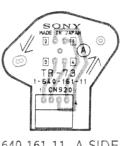
SONY



DS-31 1-640-167-11 A SIDE

PD-56 1-640-162-13 A SIDE



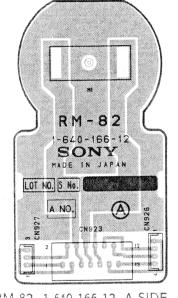


TR-73 1-640-161-11 A SIDE



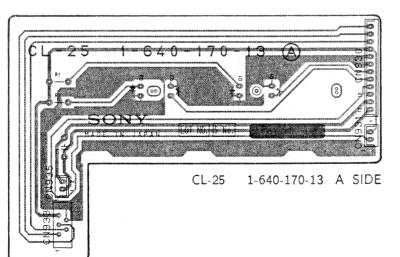
Serial No.(EK); 10001 to 1525

Serial No. (UC); 10001 to 100

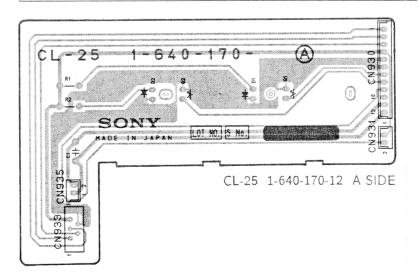


RM-82 1-640-166-12 A SIDE

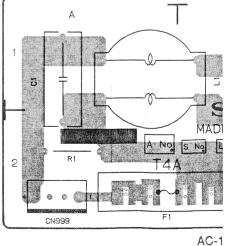




Serial No.(EK);10001 to 12850



Serial No.(EK); 1 Serial No. (UC); 1



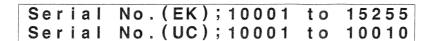
PTC-42 1-640-168-12 A SIDE

1-640-168-12

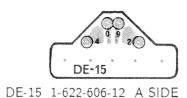


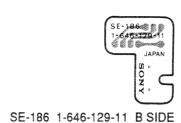


PD-56 1-640-162-13 A SIDE



Serial No.(EK);15256 and higher Serial No. (UC); 10011 and higher







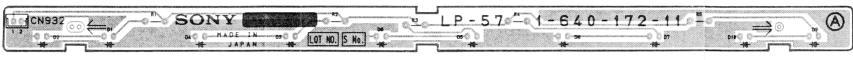
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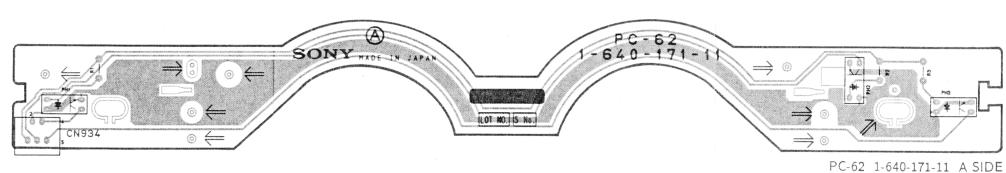
21 2121 S SIZIZIZI

DS-31 1-640-167-11 A SIDE



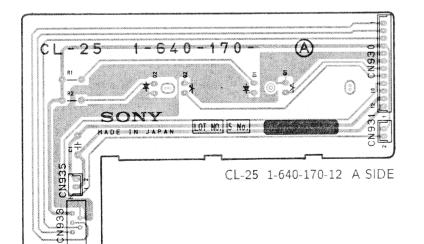
LP-57 1-640-172-11 A SIDE



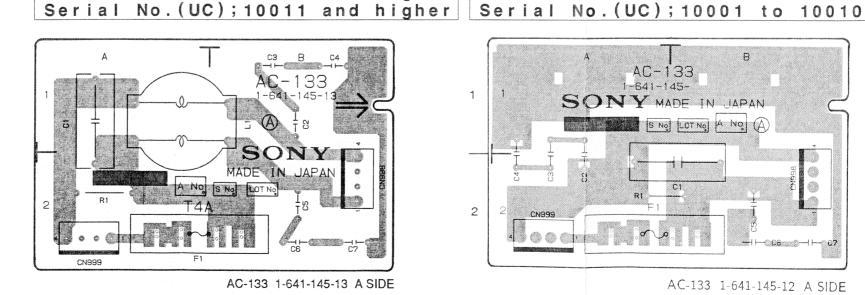


TR-73 1-640-161-11 A SIDE

Serial No. (EK); 14586 and higher Serial No. (EK); 10001 to 14585



Serial No.(EK);10001 to 12850

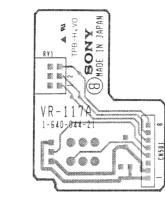


AC-133 SONY MADE IN JAPAN S No LOT No A NO A

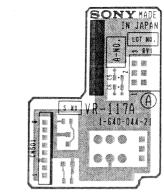
AC-133 1-641-145-12 A SIDE

15-20

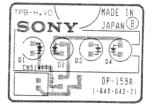
VR-117 ; VIDEO INPUT LEVEL/TRACKING CONTROL CP-159 ; RF/VIDEO METER BACK LIGHT RM-93 ; TBC/9P REMOTE CONNECTOR



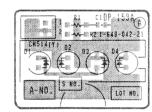
VR-117A 1-640-044-21 B SIDE



VR-117A 1-640-044-21 A SIDE

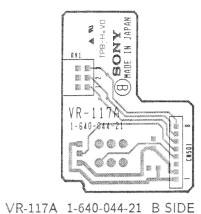


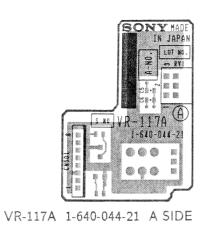
DP-159A 1-640-042-21 B SIDE

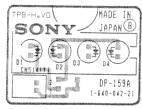


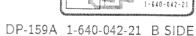
DP-159A 1-640-042-21 A SIDE

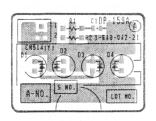
VR-117; VIDEO INPUT LEVEL/TRACKING CONTROL CP-159; RF/VIDEO METER BACK LIGHT RM-93; TBC/9P REMOTE CONNECTOR





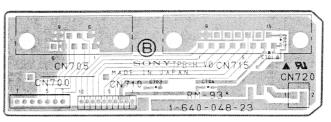




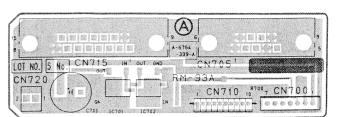


DP-159A 1-640-042-21 A SIDE

Serial No. (EK); 15256 and higher Serial No. (UC); 10010 and higher

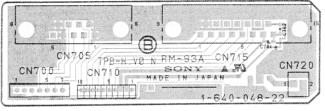


RM-93A 1-640-048-23 B SIDE

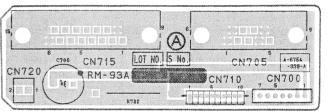


RM-93A 1-640-048-23 A SIDE

Serial No.(EK); 14586 to 15255 Serial No.(UC); 10001 to 10010

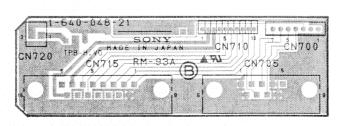


RM-93A 1-640-048-22 B SIDE

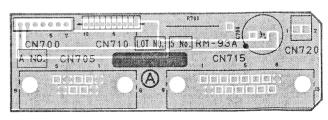


RM-93A 1-640-048-22 A SIDE

Serial No. (EK); 10001 to 14585



RM-93A 1-640-048-21 B SIDE



RM-93A 1-640-048-21 A SIDE

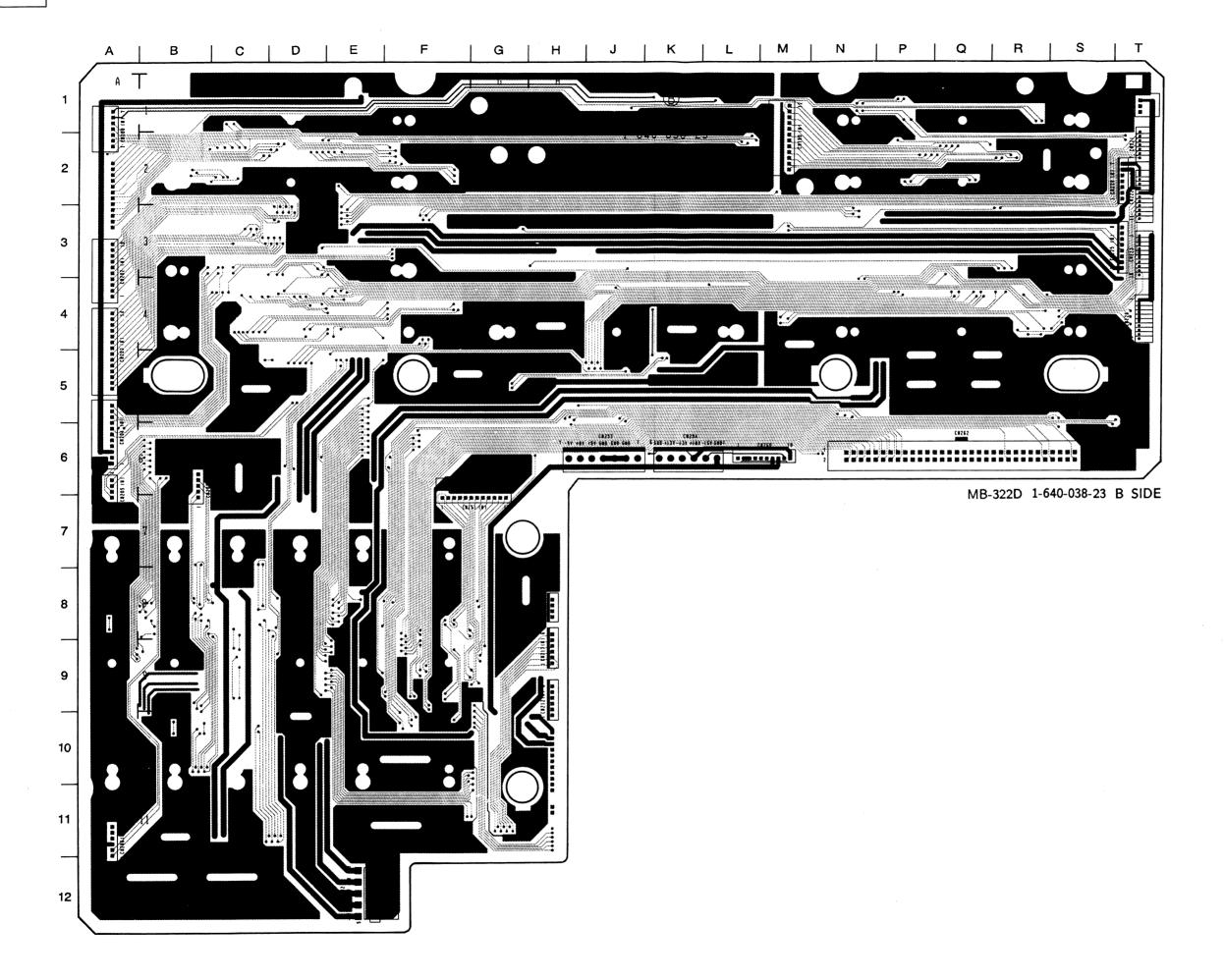
MB-322D; MOTHER BOARD

N M K Н G R Q Ρ J F E D С S 46a 70a 7296 1904 1-640-038-2 SONY MADE IN JAPAN [167 Ho.] 5 HG 3 500 (0.0 30.0 EXIOE 20.0 (0.0) 19 Principal of the control of the cont 5 000986 6 ********* Ministry

Minist 10 11 12

MB-322D (1-640-038-23)

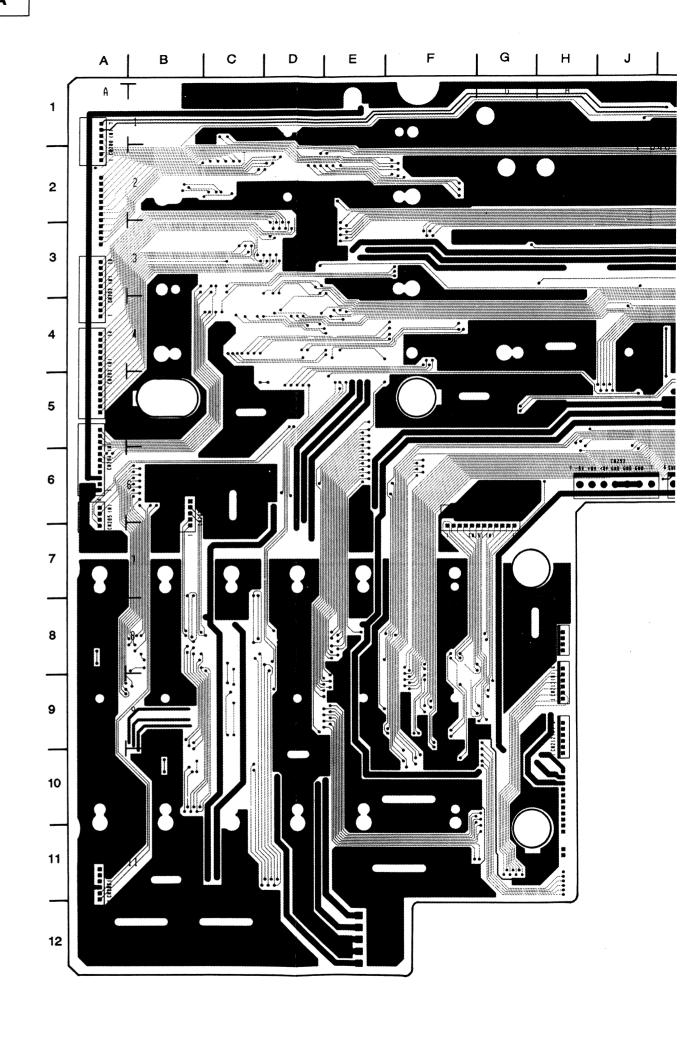
CN 103	D-2
CN 104	Q-2
CN 105	D-3
CN 106	Q-3
CN 109	A-9
CN 110	B-9
CN 111	C-9
CN 114	G-9
CN 139	D-4
CN 140	J-4
CN 141	Q-4
CN 150	M-2
CN 151	G-7
CN 200	A-2
CN 202	A-4
CN 203	A-5
CN 204	A-6
CN 205	A-6
CN 206	A-11
CN 207	B-6
CN 212	H-9
CN 213	H-9
CN 214	H-8
CN 220	T-1
CN 221	T-2
CN 222	T-2
CN 223	T-3
CN 224	S-2
CN 225	S-3
CN 260	M-6
CN 262	Q-6
CN 292	E-12
CN 293	J-6
CN 294	K-6



MB-322A; MOTHER BOARD

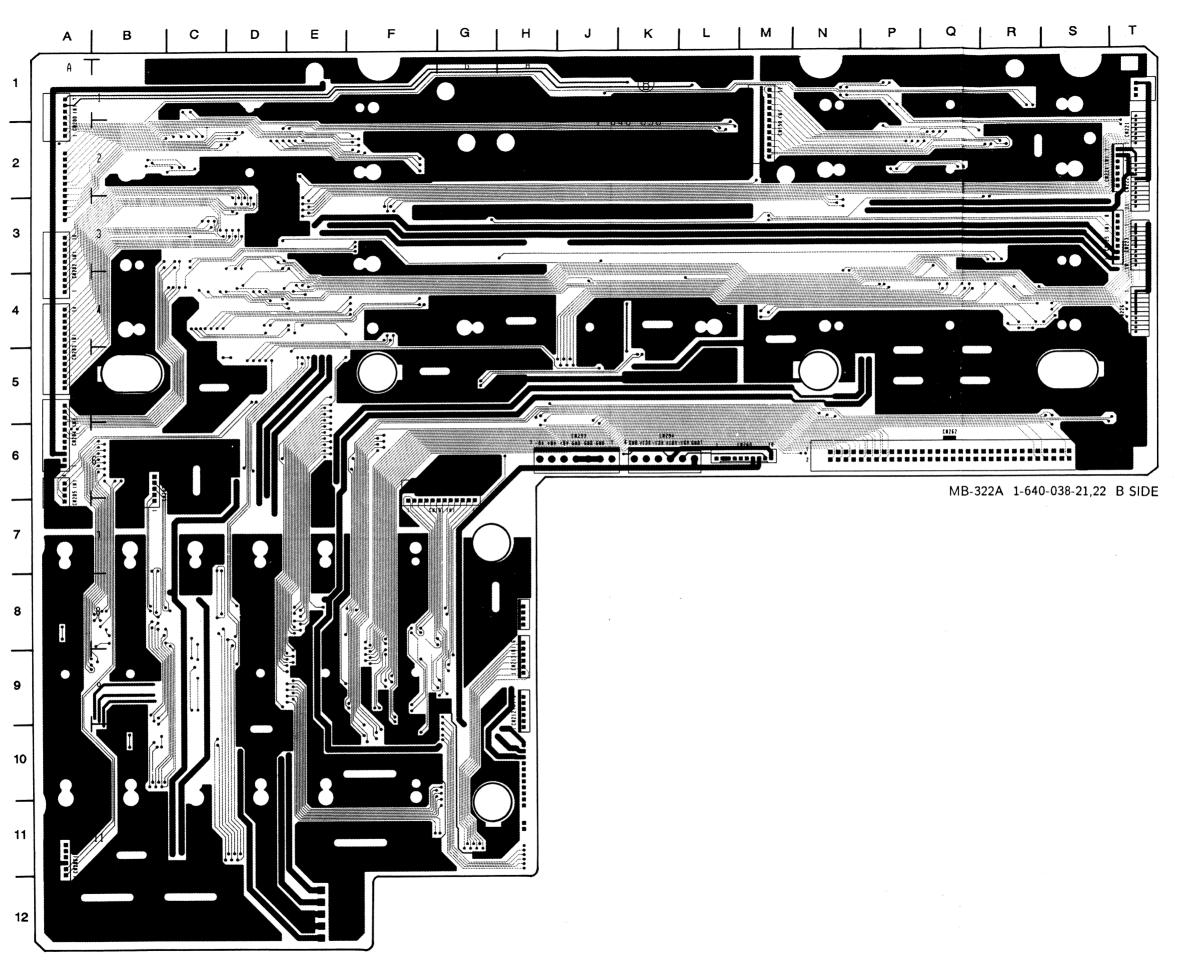
MB-322A (1-640-038-21,22)

CN 101 D-1
CN 102 Q-1
CN 103 D-2
CN 104 Q-2
CN 105 D-3
CN 106 Q-3
CN 109 A-9
CN 110 B-9
CN 111 C-9
CN 114 F-9
CN 139 D-4
CN 140 J-4
CN 140 J-4
CN 150 M-2
CN 151 G-6
CN 200 A-1
CN 202 A-3
CN 203 A-4
CN 204 A-6
CN 205 A-6
CN 205 A-6
CN 207 B-6
CN 212 H-9
CN 213 H-9
CN 213 H-9
CN 214 H-8
CN 220 T-1
CN 221 T-2
CN 223 T-3
CN 224 T-2
CN 225 T-3
CN 226 T-4
CN 260 M-6
CN 262 Q-6
CN 292 E-12
CN 293 J-6
CN 294 K-6



5-23(a)





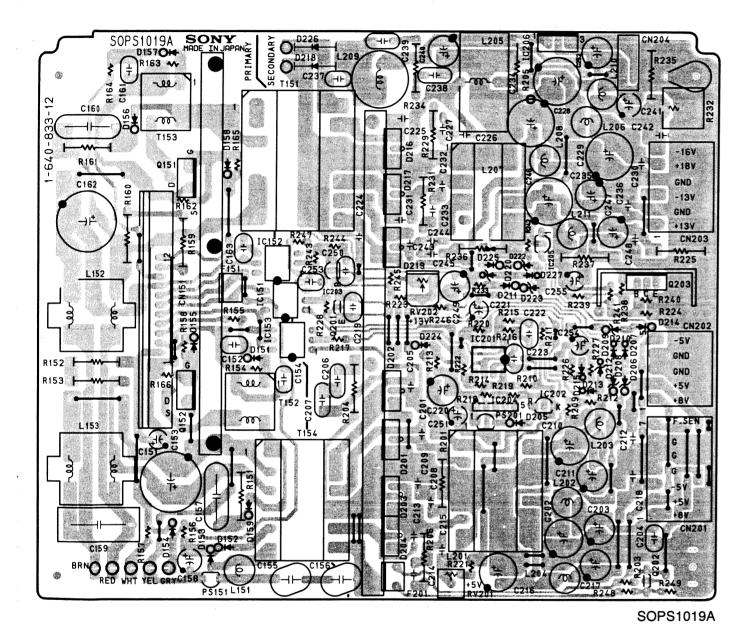
MB-322D; MOTHER BOARD

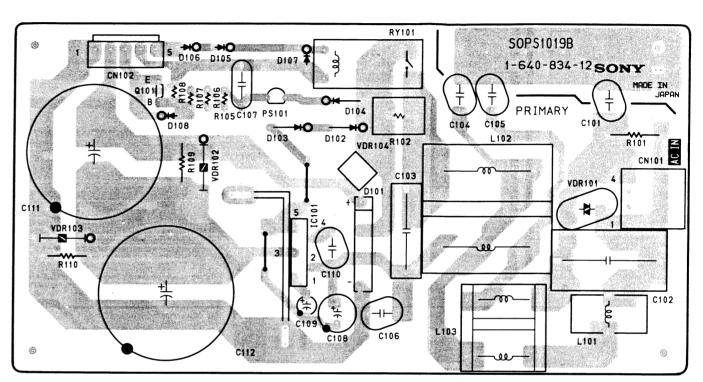
MB-322D (1-	-640-038-23)
CN 103 CN 104 CN 105 CN 106 CN 109 CN 110 CN 1110 CN 1114 CN 139 CN 141 CN 150 CN 151 CN 200 CN 202 CN 203 CN 204 CN 205 CN 206 CN 207 CN 212 CN 212 CN 213 CN 214 CN 222 CN 223 CN 224 CN 225 CN 222 CN 223 CN 224 CN 225 CN 260 CN 262 CN 292 CN 293 CN 294	DQDQA9999444272456611699812236624662466

MB-322D; MOTHER BOARD

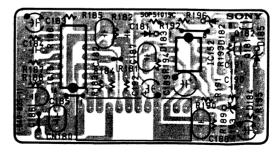
MB-322D (1-640-038-23)
CN 103 D-2 CN 104 Q-2 CN 105 D-3 CN 106 Q-3 CN 109 A-9 CN 110 B-9 CN 111 C-9 CN 111 G-9 CN 139 D-4 CN 140 J-4 CN 140 J-4 CN 150 M-2 CN 151 G-7 CN 200 A-2 CN 202 A-4 CN 203 A-5 CN 204 A-6 CN 205 A-6 CN 205 A-6 CN 206 A-11 CN 207 B-6 CN 212 H-9 CN 213 H-9 CN 214 H-8 CN 212 T-2 CN 222 T-2 CN 222 T-2 CN 223 T-3 CN 224 S-2 CN 225 S-3 CN 260 M-6 CN 262 Q-6 CN 292 E-12 CN 293 J-6 CN 294 K-6

SOPS1019A; SWITCHING REGULATOR SOPS1019B; SWITCHING REGULATOR SOPS1019C: SWITCHING REGULATOR





SOPS1019B



SOPS1019C

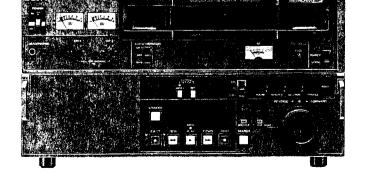
SONY

VIDEOCASSETTE PLAYER

PVW-2600P

SERVICE MANUAL

Vol.2 1st Edition (Revised 1)
Serial No.10001 and Higher
(EK)
Serial No.10001 and Higher
(USA CANADA)





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SECTION 16 SCHEMATIC DIAGRAM

CIRCUIT CONFIGURATION

The circuit information is provided below.

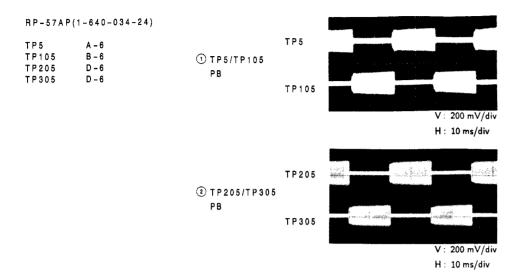
System	Board	Circuit Function
	RP-57AP	RF PB Amplifier
	VP-33AP	Y/C PB Process (PB RF EQ, Demod., Encode, Y-RF Envelope DET),
		Composite Out Driver
VIDEO	DO - 29	Drop Out Detector
	TBC-18P	Time Base Corrector, CTDM (Expand)
	CP-166A	Output Connector, Component Out Driver
	VR-117A	Tracking Control
	AU-148AP	CH-1 PB Process, Dolby System
	AU-149AP	CH-2 PB Process, Dolby System
	AU-150A	Mode Control, LTC PB
AUDIO	CP-167A	Output Connector, Line Out Driver
	DP-138A	Audio Level Meter Back Light
	VR-116A	PB Level Control, Headphone Volume Control
	MA-44A	Meter Driver, Headphone Amplifier
	SS-48P	System Control, Servo System Main, Time Code Reader, Character
		Generator
	KY-210A	Keyboard
	DP-139A	Time Code Display
	DR-118A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG
		Amplifier, CTL PB, Adjust Data Storage
	DR-232A	Motor Driver, Solenoid Driver, Sensor Input, Tension Amplifier, FG
		Amplifier, CTL PB, Adjust Data Storage
	CL-25	Cassette Compartment (Cassette Loading Begin/Near-end Sensor,
		LP-57 Connection Cassette Loading Motor)
•	DE-15	Reel FG
SERVO/	DS-31	Condensation Sensor
SYSTEM	HC-14C	Sub-control Panel
CONTROL	PC-62	Cassette In/Large Cassette Sensor
TIME CODE	PD-56	Pinch/Cleaning Solenoid Connection, Reel FG Check
	PTC-39	Search Dial
	PTC-42	Cassette Size Sensor
	PTC-49	Threading Motor
	PTC-54	Threading FG
	PTC-55	Cassette Information Sensor (Tape Thickness, Reel Hub Diameter,
		Metal/Oxide)
	RM-82	Reel Motor
	RM-93A	TBC/9P Remote Connector
	* SE-186	Reel FG
	SW-444A	Select Switch, Indicator, RF/Video Level Meter
	TR-73	S/T Tension Sensor
	AC-133	AC Line Filter, Fuse
	DP-159A	RF/Video Meter Back Light
OTHERS	LP-57	Cassette Illumination
	MB-322A/322D	Mother Board
	SOPS1019A	Switching Regulator
	SOPS1019B	Switching Regulator
	SOPS1019C	Switching Regulator

^{*} SE-186 Board: As to serial No. (EK) 15836 and higher, (uc) 10011 and higher the board has been changed from DE-15 to SE-186.

	Board	Page
Α	AC-133 ····	16-53
	AU-148AP	16-22
	AU-149AP	16-23
	AU-150A	· 16-24
С	CL-25	. 16-53
	CP-166A	16-21
	CP-167A	·· 16-25
D	DE-15	
	DO-29 · · · · · · · · · · · · · · · · · · ·	
	DP-138A	
	DP-139A	
	DP-159A	
	DR-118A · · · · · · · · · · · · · · · · · · ·	
	DR-232A · · · · · · · · · · · · · · · · · · ·	
	DS-31	16-53
Н	HC-14AC	16-46
K	KY-210A	16-37
L	LP-57 ·····	16-53
М	MA-44A	- 16-26
•••	MB-322A/322D	
Р	PC-62	16_53
٢	PD-56	
	PTC-39 ·····	
	PTC-42	
	PTC-49	
	PTC-54	
	PTC-55	
R	RM-82	
	RM-93A	
	RP-57AP	16-2
S	SE-186 ····	16-53
	SOPS1019A	16-55
	SOPS1019B	16-55
	SOPS1019C	16-55
	SS-48P	
	SW-444A	⋯ 16-47
Т	TBC-18P	16-16
	TR-73	
٧	VP-33AP	16-6
	VR-116A	16-26
	VR-117A	

16-1

16-₁



TP5 A-6
TP105 B-6
TP205 D-6
TP305 D-6
TP305 D-6
TP305 D-6
TP305 TP305

TP5
TP205/TP105

TP105

TP205/TP305

TP205/TP305

TP305

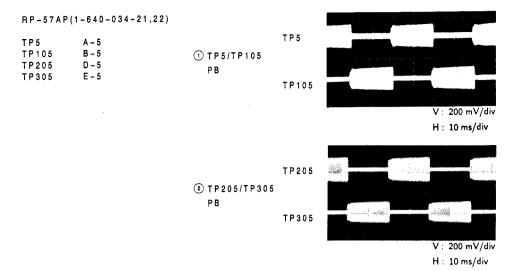
TP305

TP305

TP305

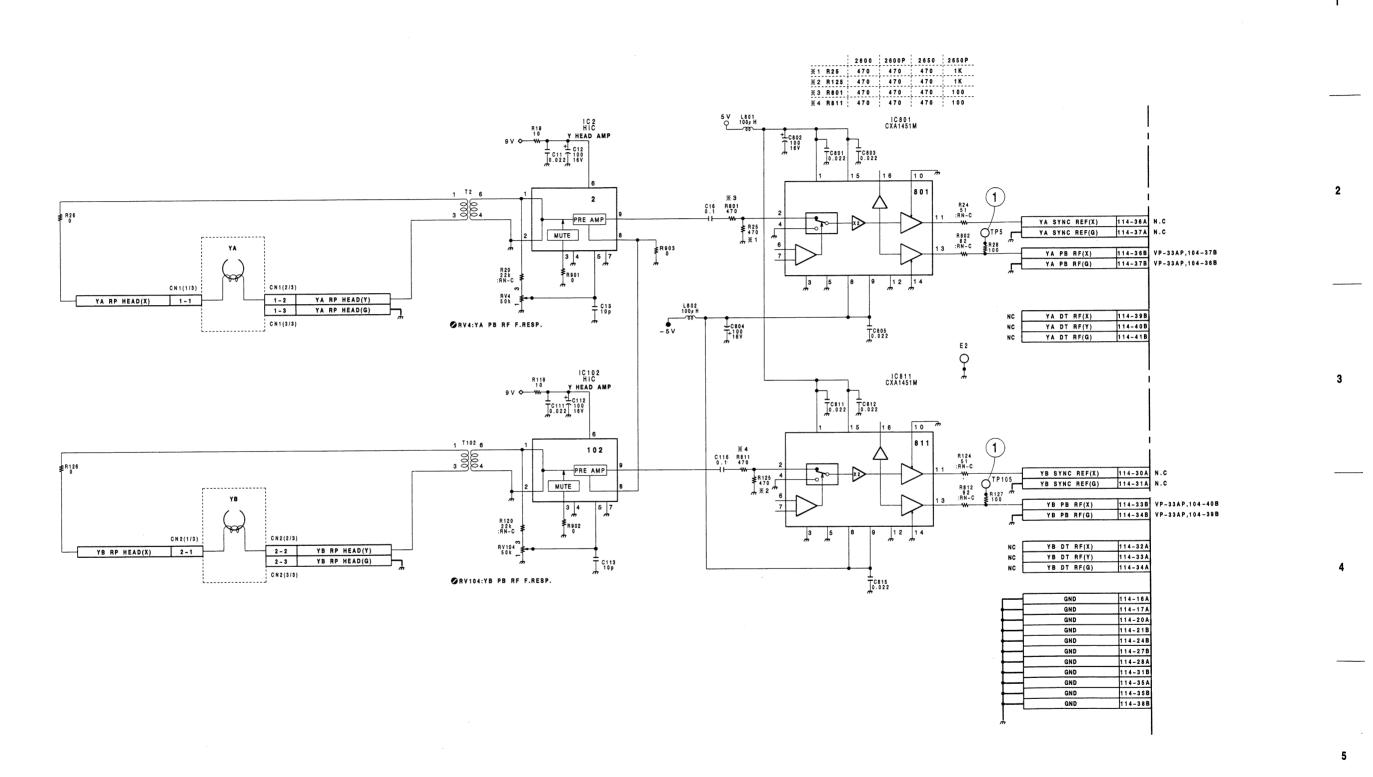
TP305

TP305



Serial No.(EK);12491 and higher Serial No.(UC);10001 and higher

RP-57AP(1/2); Y RF AMPLIFIER



RP-57AP BOARD (1/2)

BOARD NO.1-640-034-24 PVW-2600P(EK);#12491-PVW-2600P(UC);#10001-

16-3(c)

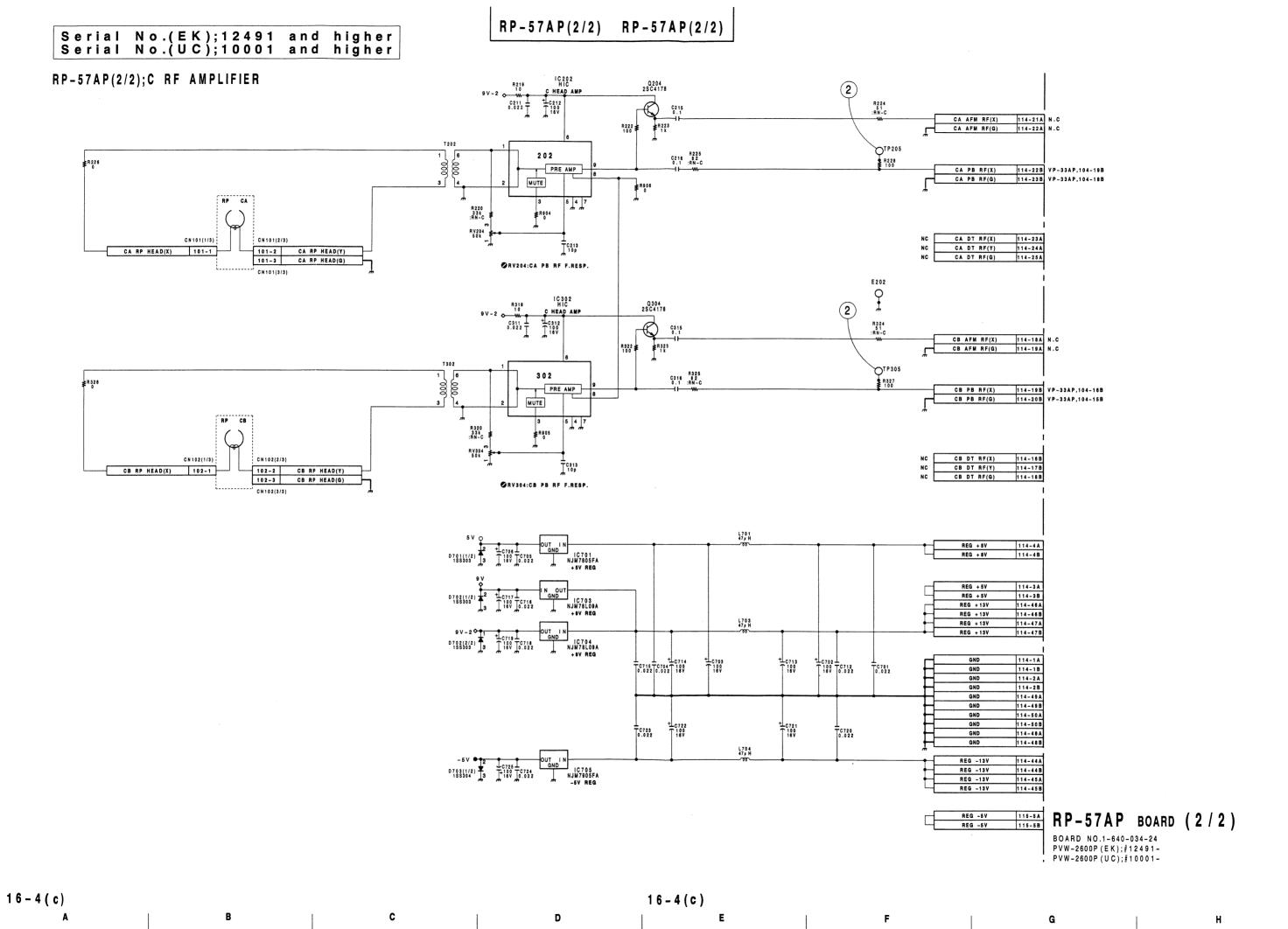
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1 6 - 3(**C**)

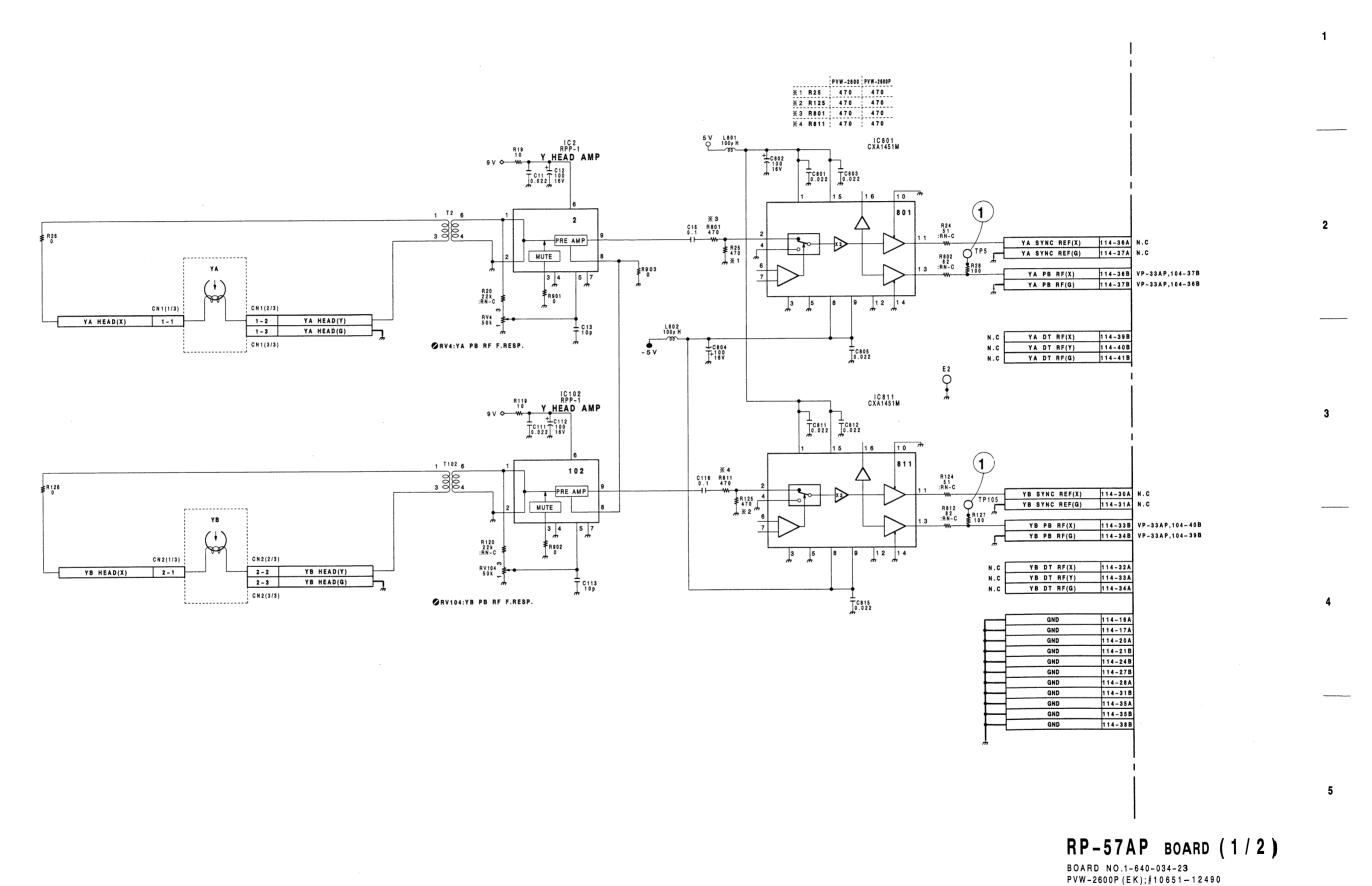
Į C

D



Serial No.(EK);10651 to 12490

RP-57AP(1/2); Y RF AMPLIFIER



16-3(b)

D

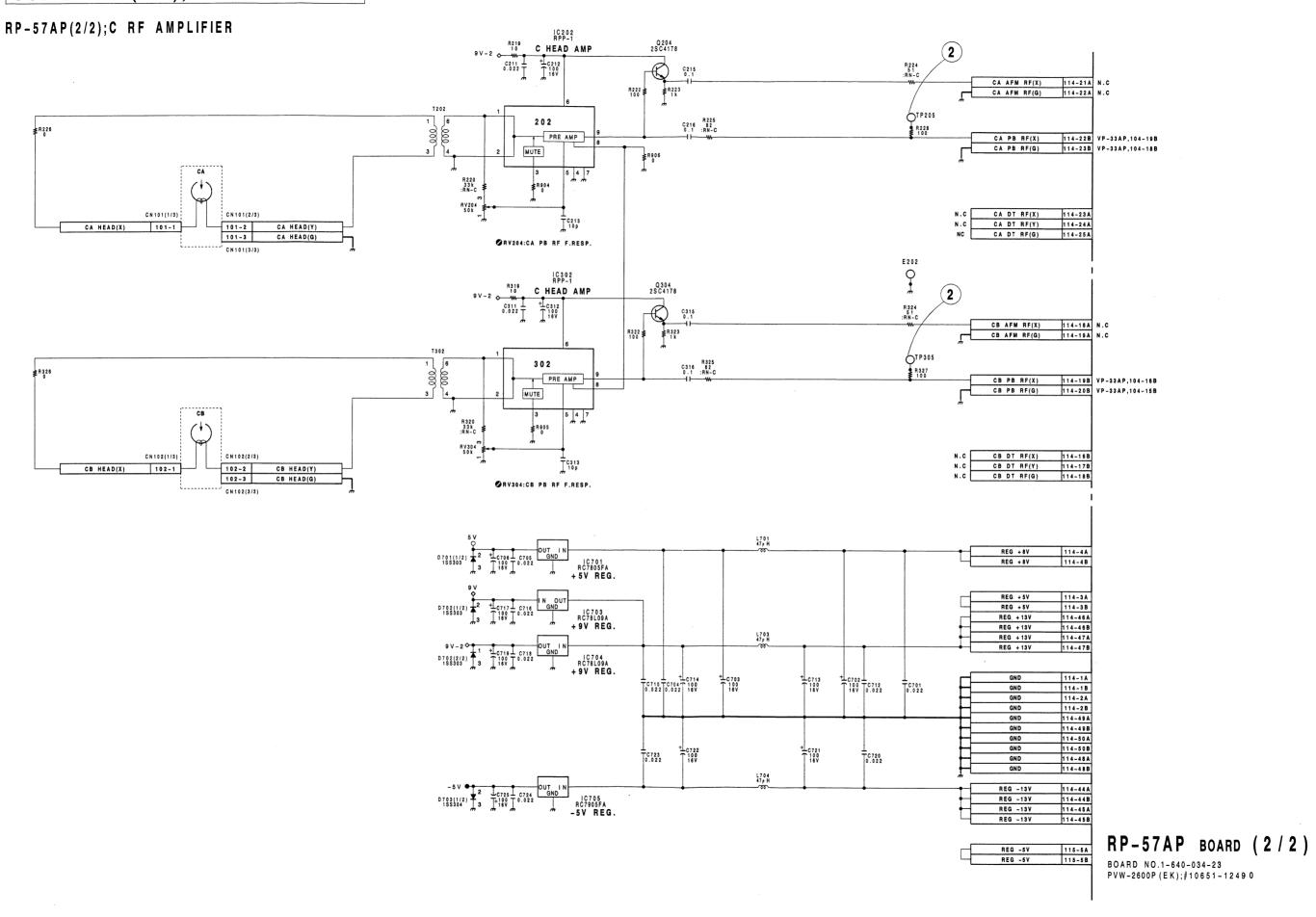
16-3(b)

Serial No.(EK);10651 to 12490

2

3

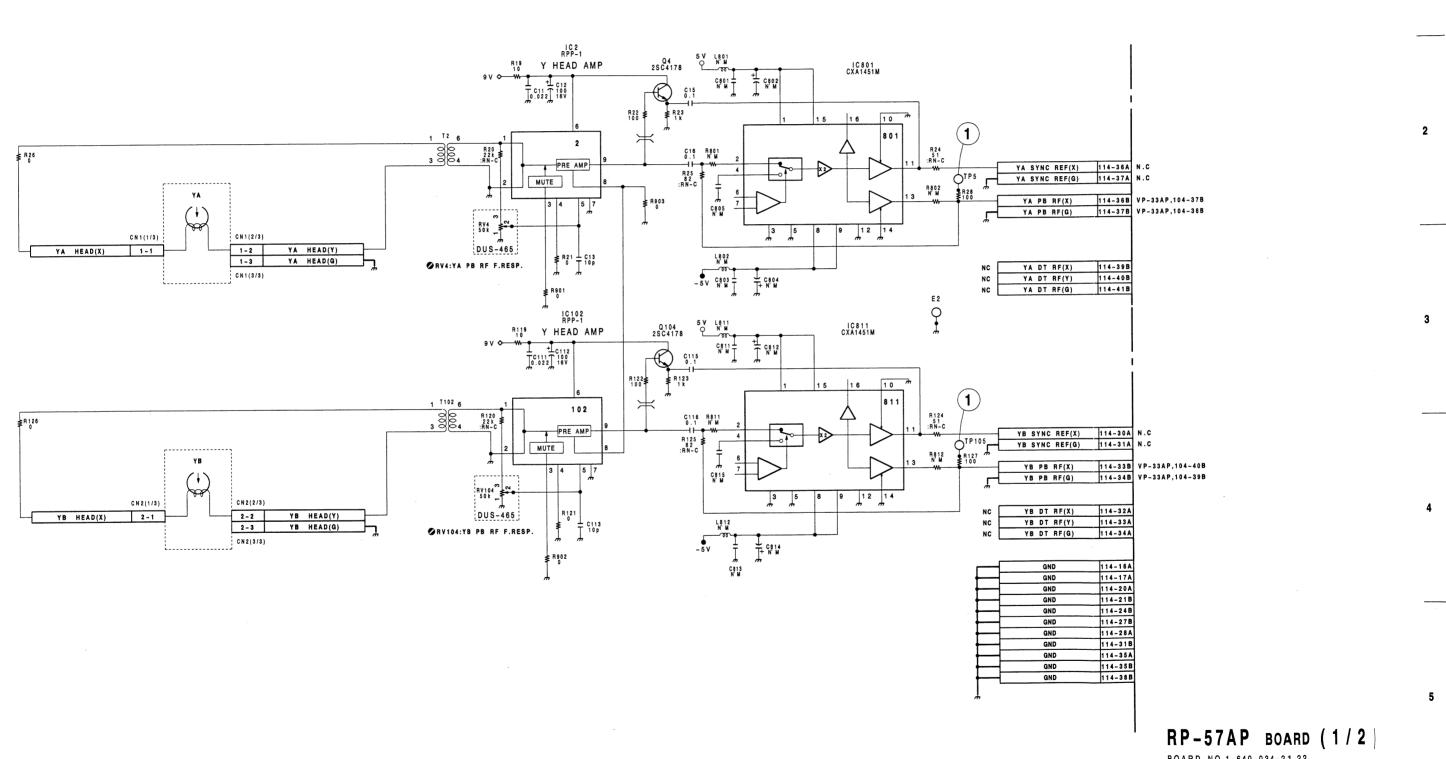
16-4(b)



16-4(b)

Serial No.(EK);10001 to 10650

RP-57AP(1/2); Y RF AMPLIFIER



BOARD NO.1-640-034-21,22 PVW-2600P(EK);#10001-10650

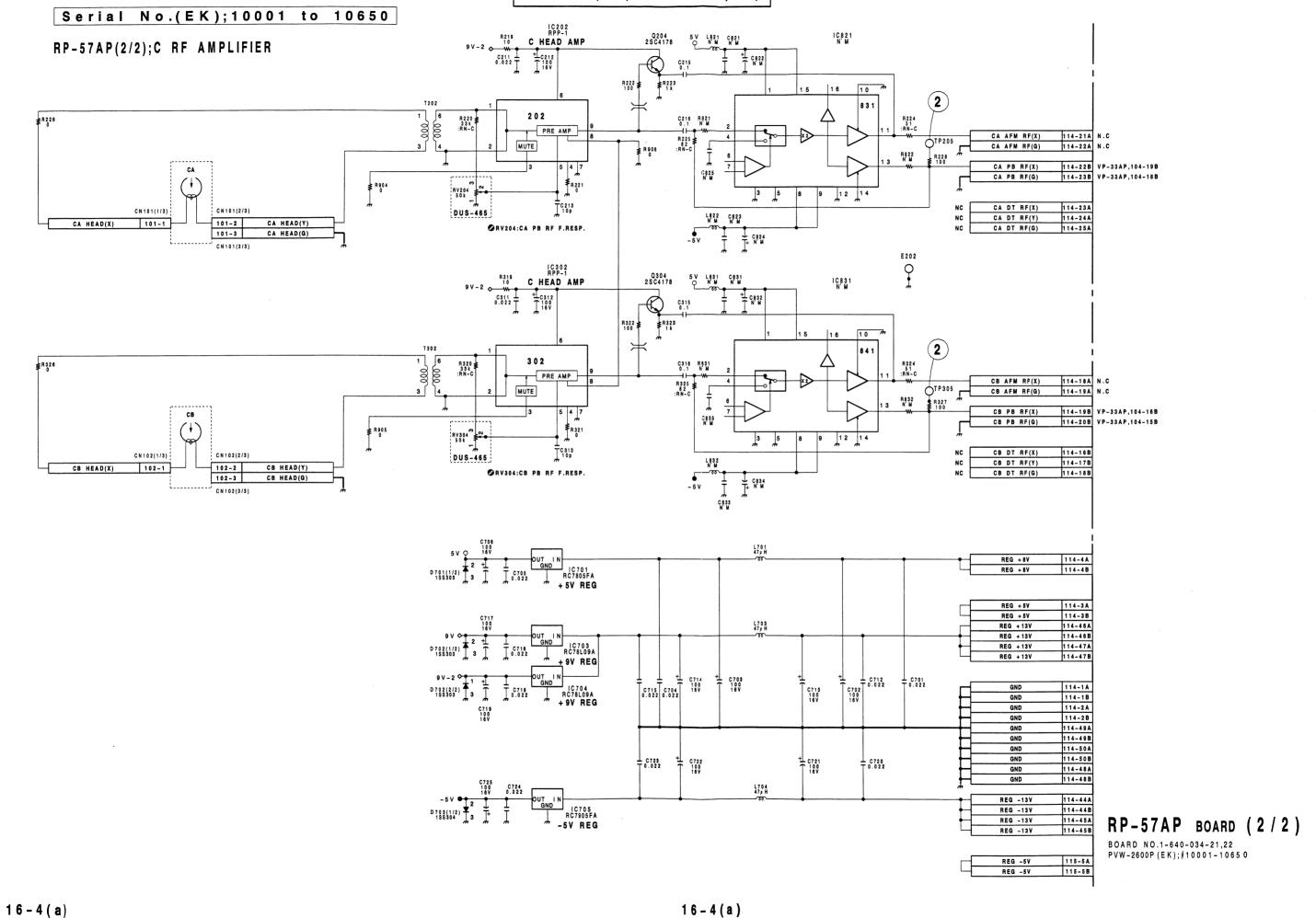
16-3(a)

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16-1(2)

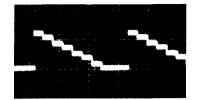
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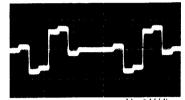
VP-33AP(1-640-032-14)		
TP1 D-1 TP2 F-1 TP101 D-1 TP102 C-1 TP103 D-1 TP105 C-4 TP106 B-4 TP107 A-4 TP108 D-6 TP201 B-4 TP204 C-1 TP205 C-3	① TP201 PB	V: 200 mV/div H: 2 ms/div
TP401 F-1 TP402 F-1 TP403 F-1 TP406 F-4 TP407 F-4 TP408 H-6 TP501 G-4 TP504 H-2 TP505 G-3 TP701 M-3 TP703 M-6	② TP204 PB	V: 500 mV/div H: 20 μs/div
TP704 N-6 TP705 N-6 TP706 N-6 TP707 P-6 TP708 P-6 TP711 M-6 TP713 M-6 TP715 K-1 TP716 K-1 TP717 L-1	③ TP501 PB	V : 200 mV/div H : 20 μs/div
		V : 200 mV/div H : 20 μs/div
	③ TP504 PB	V : 500 mV/div Η : 20 μs/div
	⑥ TP701 PB	V : 1 V/div Η : 20 μs/div

7 TP702 PB



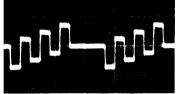
V : 1 V/div H : 20 μs/div

® TP709 PB



V : 1 V/div H : 20 μs/div

③ TP710 PB



V: 1 V/div

H : 20 μs/div

19 TP715 PB



V : 500 mV/div

 $H:~20~\mu s/div$

① TP716 PB



V : 500 mV/div H : 20 μs/div

Serial No.(EK);12951 and higher Serial No.(UC);10001 and higher REF NO. J,UC EK REF NO. **%3 R133,R134 300 330** J.UC EK **※4** L123,L124 6.8 μ H 10 μ H -415-546-11 1-415-154-31 VP-33AP(1/9); Y RF AGC, Y DO ENVELOPE DETECT %9 DL101 %5 C128 56p 33p 3 5 n s C129 120p 100p 7MHz C130 56p 33p OXIDE METAL PB RF SW C132 47p 100p ₩ 3 R141 3.3k 1k TP1 TP1:Y SW Q L:A/H:B R110 ₹ R22 105-15 Y SWING PLS METAL RF LPF 12MHz Q128 2SA1610 Q122 25C4178 Q127 2SC4178 Y RF (G) Q161 Q162 Q163 2SC4178 DTA144EU 2SA1610 Q164 Q165 Q167 2SC4178 DTA144EU 2SA1610 105-8 Q120 2SC4177 E 1 YB RF (G) 105-12 9 105-10 YA RF (G) 105-14 GND R145

C133
100

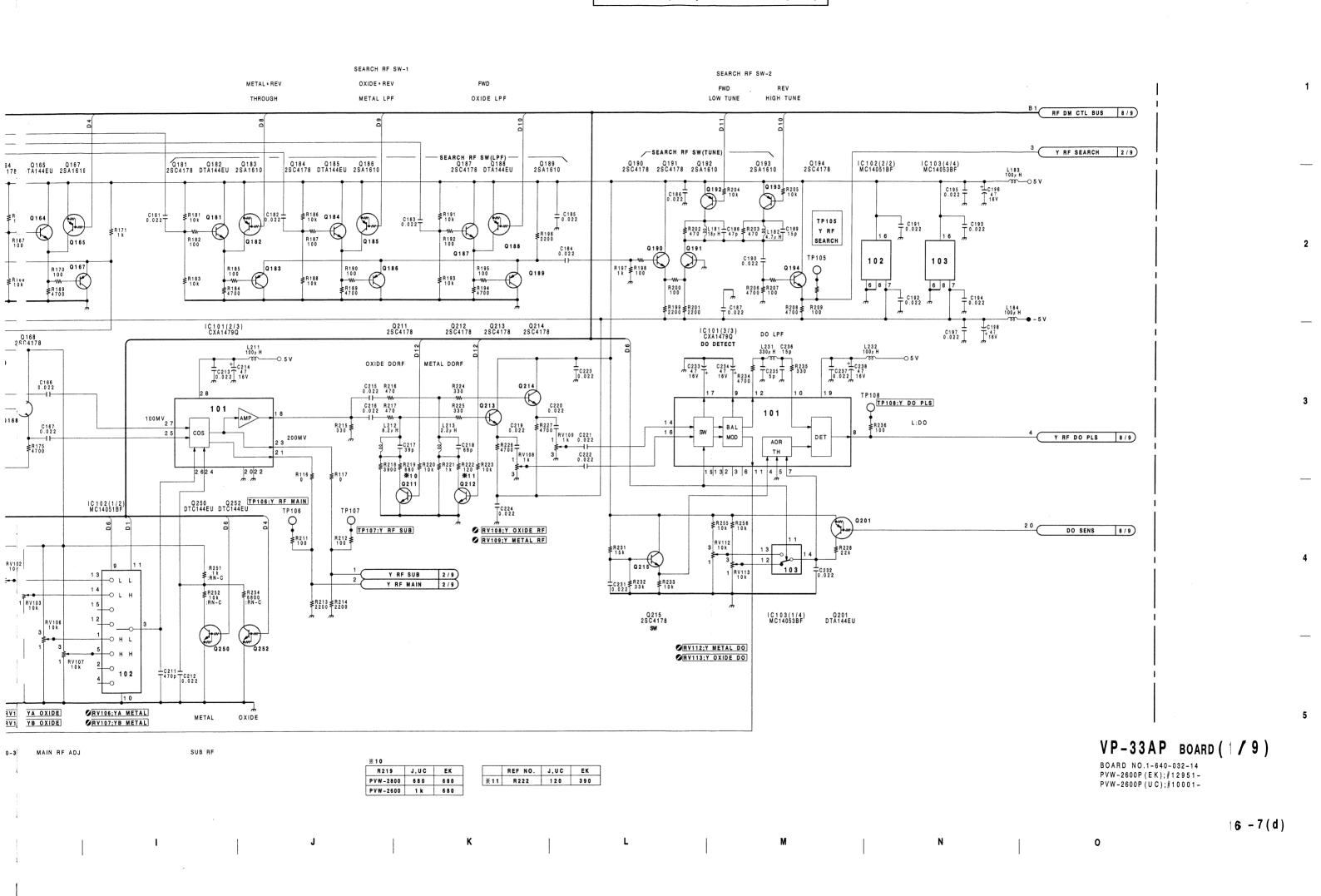
C133 ⊥ C136 ⊤ 0.022 TP103 TP103:Y RF R166 Q164 C181 0.022 \$R161 Q161 METAL RF LPF R146 \$L125 C134 510 4.7 H 56p :RN-C 00 | 0 R123Q121 R162 R167 Q162 C162 T 0165 CN102 (W) 0.022 100 FOR TOOL Q127 Q122 R152 470 R149 Q128 Y RF (X) R170 Q167 100 W R169 4700 2 102 TP101:YA TP102:YB ₹R168 10k 3 102 TP101 Q TP102 Q ₹R148/77 R105 100 YB RF (X) C111 L101 0.022 100g H 000 05 V 1 C112 16V OXIDE RF LPF 8MHz YA RF (X) RF AGC TC165 Q125 2SC4178 Q151 2SC4178 Q169 Q168 2SC4178 2SC4178 Q126 2SA1610 R106 100 ₹R114 2200 METAL 200mV 1 C164 T0.022 R138 ★ C131 OXIDE RF EQ Q169 OXIDE RF LPF OXIDE 100mV R131 ≸ R 1 0 3 RP-57AP,114-36B 104-37B YA PB RF (X) C166 0.022 **※9** DL101 R 173 330 RP-57AP,114-37B 104-36B YA PB RF (G) Q125 C102 0.022 + 0.5 + 0.3 + DC 101 R53 750 :RN-C Q126 **%1** R107 METAL cos C104 0.022 Q 168 ≸R122 2200 C167 0.022 YB PB RF (X) RP-57AP,114-33B 104-40B RP-57AP,114-34B 104-39B YB PB RF (G) ₹R176 4700 ¥R175 4700 35 3331 30 R132 ≱ L:OXIDE 300MV : A C H ⊥ C137 ⊤0.022 IC 102(1/2 M C14051BF D 6 VIDEO/RF METER DRIVER -IC103(3/4) IC105(2/2) MC14053BF TL082CPS IC104(2/4) Q241 TL084CNS 2SA1610 IC104(3/4) TL084CNS 9 V REF NO. PVW-2800 PVW-2600 R103,R107 0 82 T 0.022 +1 (5 +1 (C242 103 \$R243 5 0 V C243 S101 H:EE Q241 R242 104 3 |2| | 1 ▼▼▽ 1 RV107 ON --- OFF 102 S101:Y RF AGC R246 22k R 2 4 8 1 0 k OR V106; YA METAL ORV102;YA OXIDE OR V107;YB METAL RV103;YB OXIDE R 2 4 7 2 2 k 1 C246 T 0.022 104-35A SW-444A,510-3 MAIN RF ADJ N.C 104-34A VIDEO LEVEL VIDEO METER R210 100 RV111; VIDEO METER

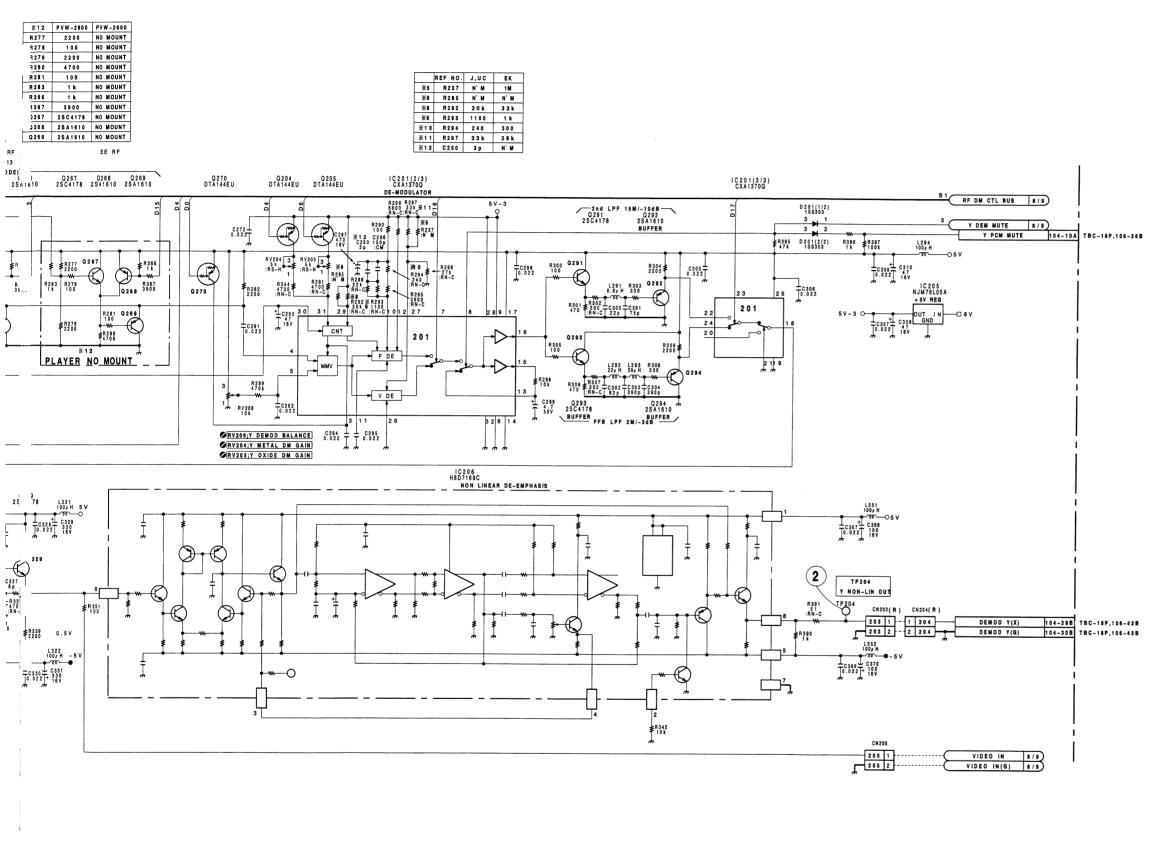
	REF NO.	PVW-2800	PVW-2600
※9 2	R 2 4 9	1 k	NO M'T

104-35B N.C

Y RF ENV

16-7(d) B C D E F G H





VP-33AP BOARD (2/9)

BOARD NO.1-640-032-14 PVW-2600P (EK);#12951-PVW-2600P (UC);#10001-

16-8(d)

VP-33AP(2/9); Y DE-MODULATOR, NON LINEAR DE-EMPHASIS

R279 2200 NO MOUNT R280 4700 NO MOUNT R362 1 k NO MOUNT R363 3900 0 R281 100 NO MOUNT R283 1 k NO MOUNT R366 1 k NO MOUNT Q265 2SA1610 DTA144EU R364 1 k NO MOUNT R365 3900 0 R367 3900 NO MOUNT Q267 2SC4178 NO MOUNT Q268 2SA1610 NO MOUNT Q259 2SA1610 NO MOUNT #13 PVW-2800 PVW-2600 SEARCH RE CN201 1-564-001-11 NO MOUNT MORE +13 CN202 1-564-001-11 NO MOUNT 0261 Q262 Q263 Q264 Q265 Q266 2SC4178 2SA1610 2SA1610 2SC4178 2SA1610 2SA1610 IC201(1/3) CXA1370Q OVER MOD COMPENSATO IC202(2/3) MC14053BF Q267 Q268 Q269 2SC4178 2SA1610 2SA1610 **※13 ※13** CN201(₩) CN202(₩) 201 1 - 1 202 201 2 - 2 202 Y EE RF(X) N.C 104-25A Y EE RF(G) **※17 ※17** 1/9 Y RF SEARCH IC202 **(1**) RV201 €3 Q265 3900 FR261 0.022 Q262 R363 1/9 Y RF MAIN C261 0.022 4 4 C262 0.022 4 1 Y RF SUB R276 Q266 C263 0.022 4 2 R275 4700 L 2 6 1 12 # H ₹R280 4700 TP205:Y OMC-DC R263 1 C266 T C267 \$ R264 PLAYER NO MOUNT ORV201;Y LIMITER BALANCE 4/9 SELECT SPEED 10 RV202;Y METAL OMC IC202(1/3) MC14053BF ¥ 15 Q301 | C203(1/2) DTC144EU | TL082CPS IC202(3/3) MC14053BF ₹R354 METAL LPF 4.0MHz -0352 2SA1610 CXA1450M M/O SW Q351 2SC4178 Q321 2SC4178 Q322 25A1610 Q323 Q324 Q327 Q328 Q325 Q326 Q329 2SC4178 2SC4178 2SA1610 2SA1610 2SC4178 2SC4178 R355 ≱ C352 100 ≠ 0.022 R322 ≱ C321 100 ≠ 0.022 R361 ≢ H:OXIDE TBC-18P,106-16B 104-10B TBC SPEED Q321 #2 R323 470 RN-C FL202 R343 R320 470 1k 7 6 8 IC 2 0 2 H:TBC SPEED TBC-18P,106-17B SS-48P,141-43A L350 g FR324 LPF 5.5MHZ R358 LPF 4MHZ ₹R333 1800 ≢R335 ≢R336 • NO SIG I C323 C330 C331 T 0.022 T0.022 NTSC NO MOUNT IC203(2/2) TL082CPS REF NO. J,UC EK R350 NO M' T 3500 REF NO. PVW-2800 PVW-2600 **※2 R323 470 300** # 14 R 343 470 NO MOUNT # 15 Q 301 DTC144EU NO MOUNT

16-8(d)

1

₩3 R325

₩4 R310

470

5 1 k

300

#16 C350 NO N' T 10P

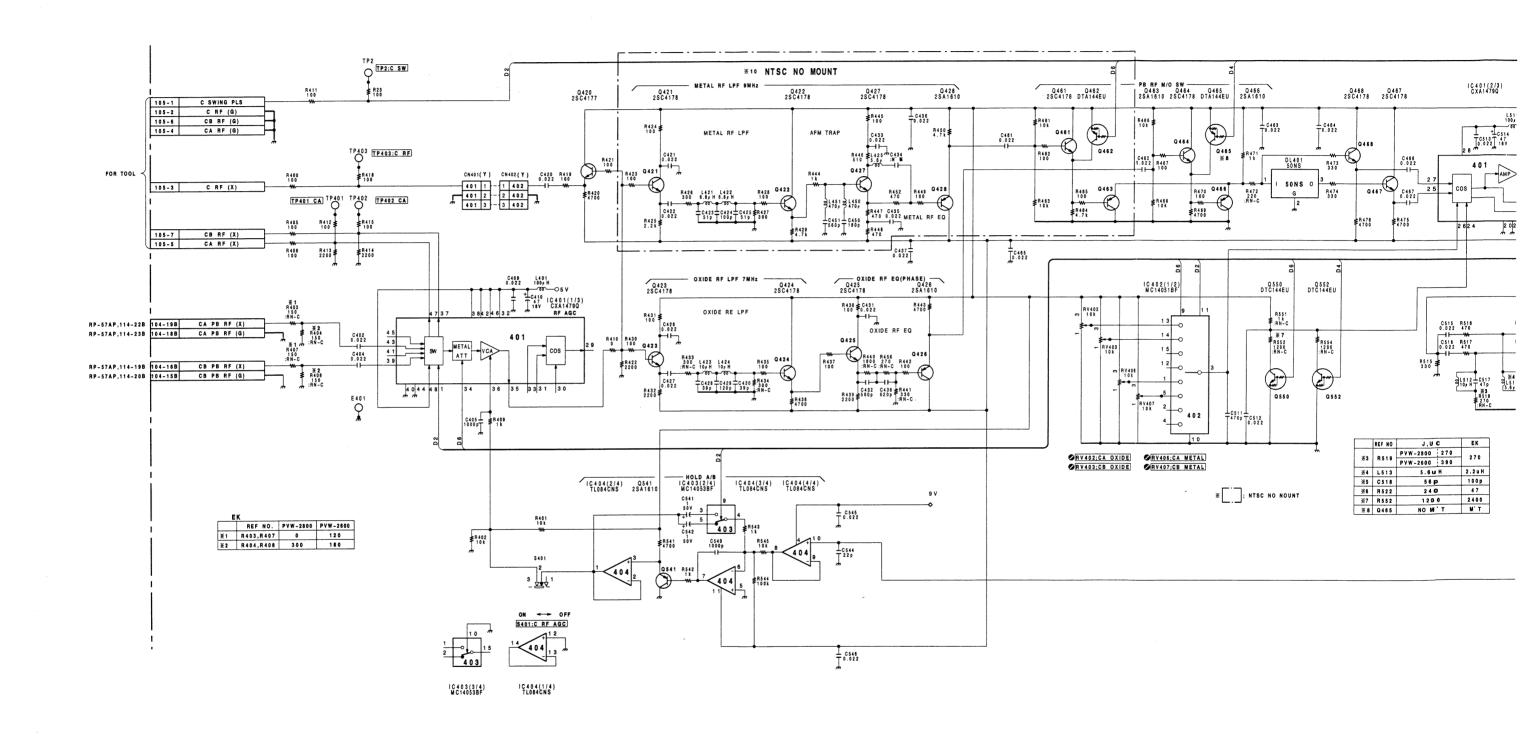
L350 NO M' T 220 p H

#12 PVW-2800 PVW-2600 R277 2200 NO MOUNT

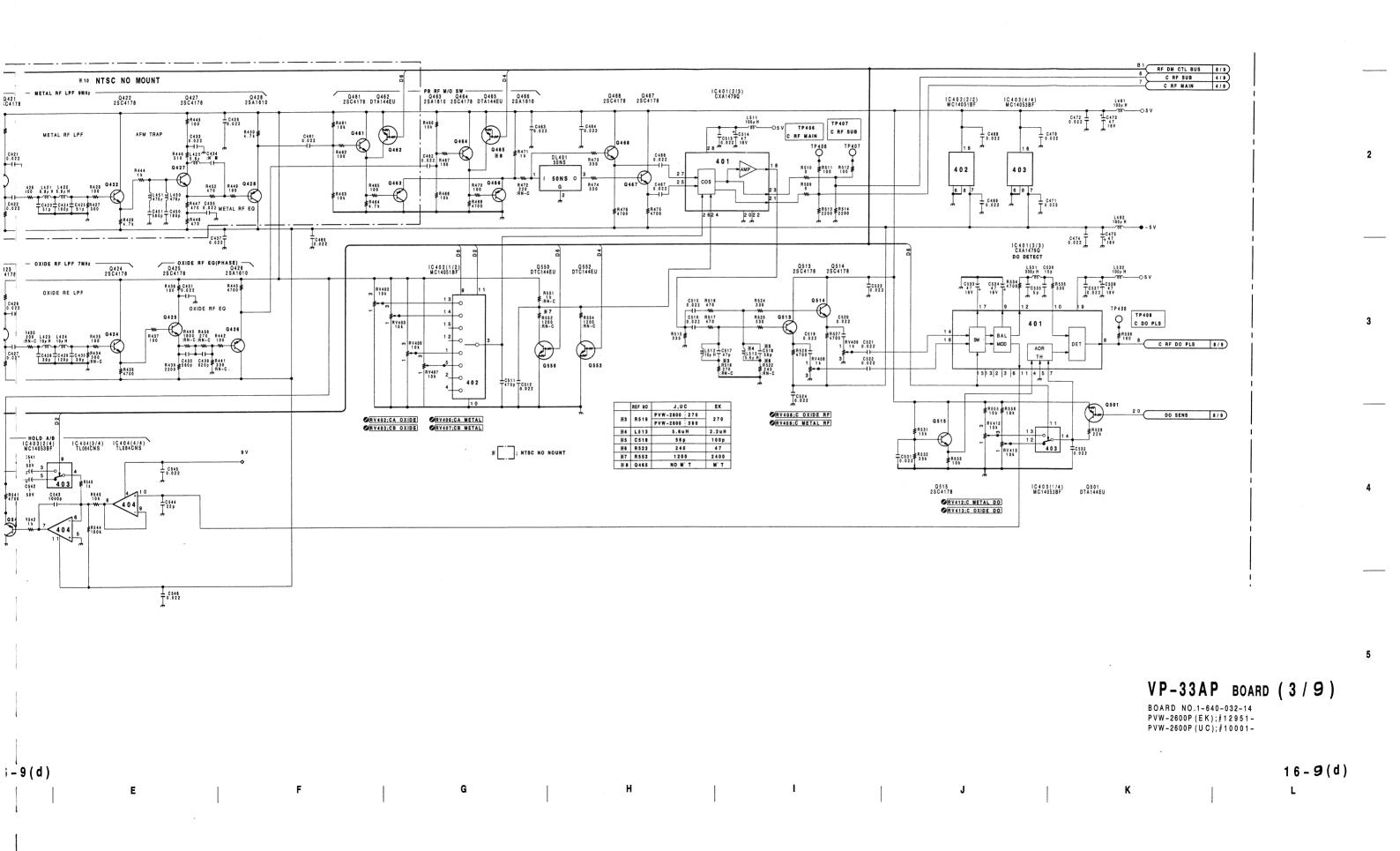
R278 100 NO MOUNT

※17 PVW-2800 PVW-2600
Q262 2SA1610 DTA144EU

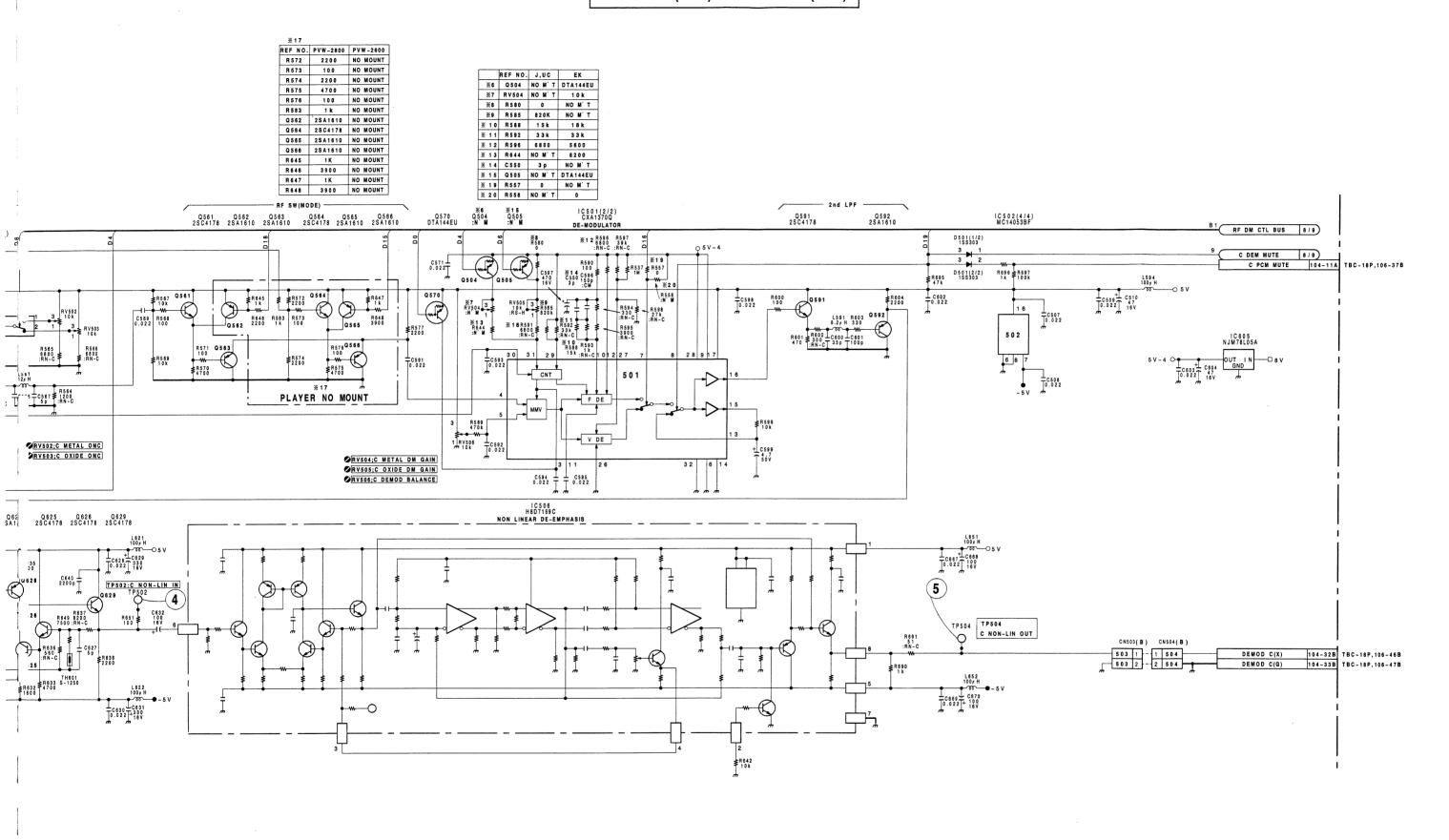
VP33AP(3/9); C PB RF EQ, C RF AGC, C DO DETECT



16-9(d) B C D E F G H



16-10(d) A B C D E F G H



VP-33AP BOARD (4/9)

BOARD NO.1-640-032-14 PVW-2600P(EK);#12951-PVW-2600P(UC);#10001-

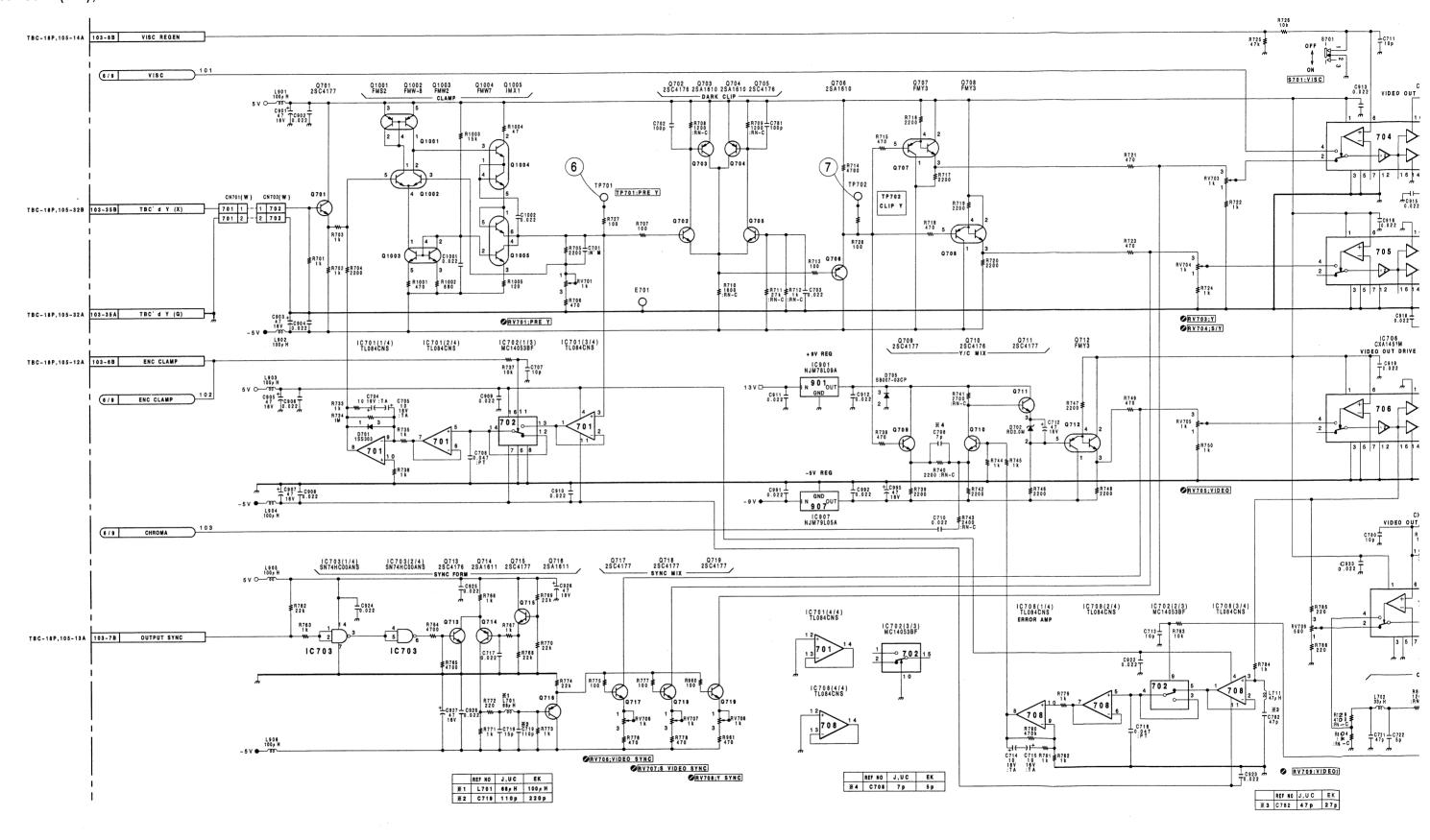
16-10(d)

| H

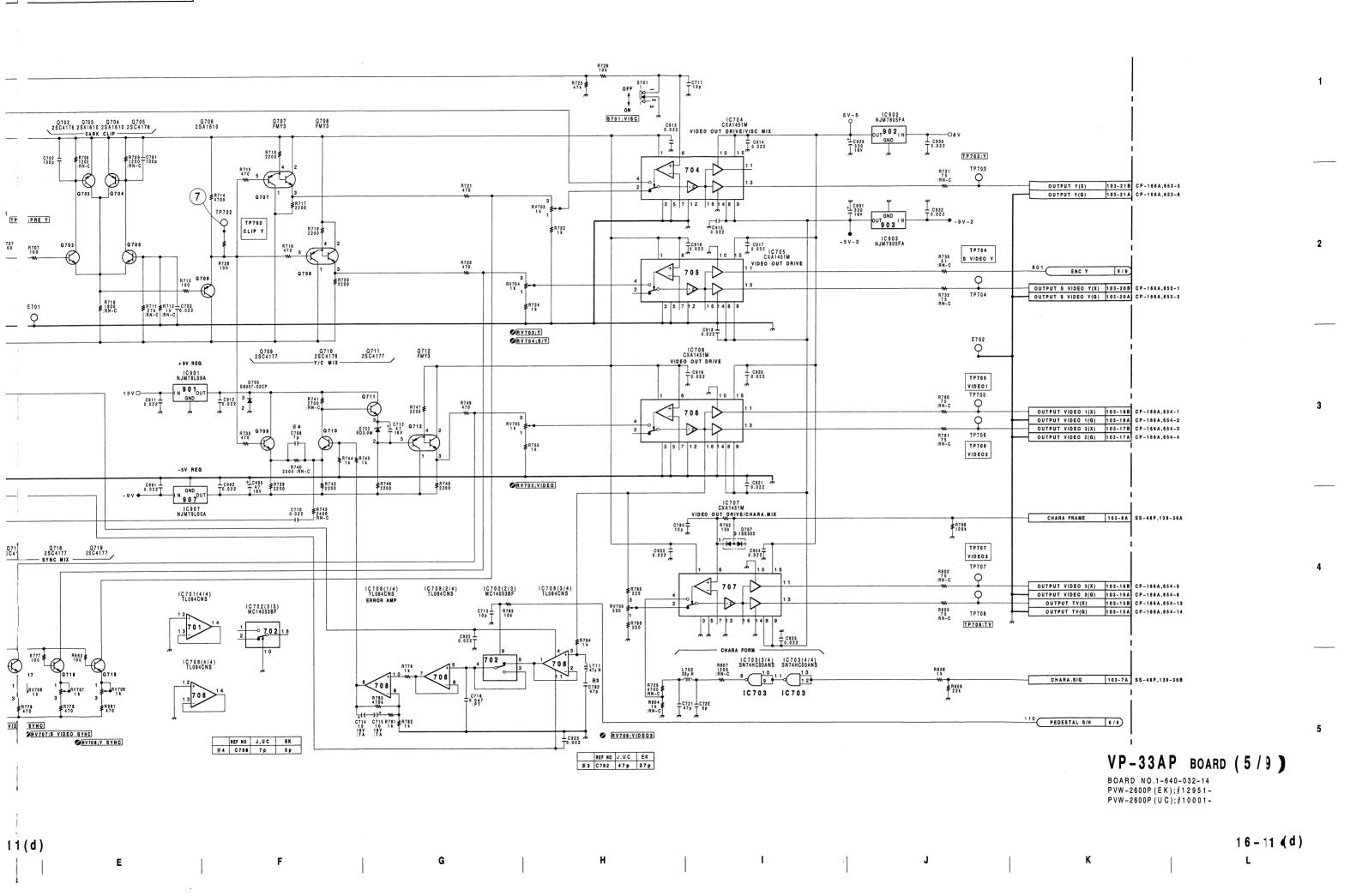
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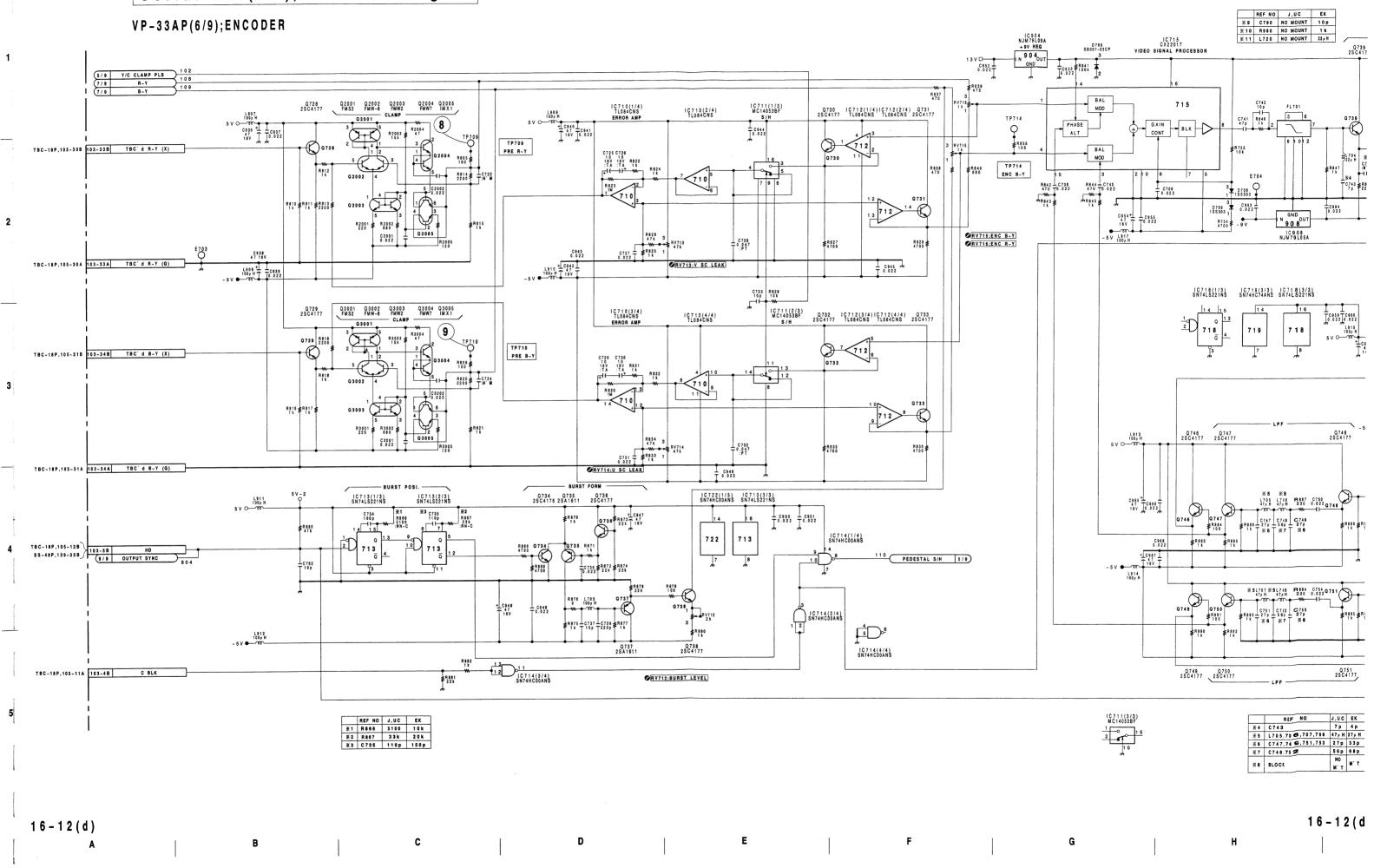
L

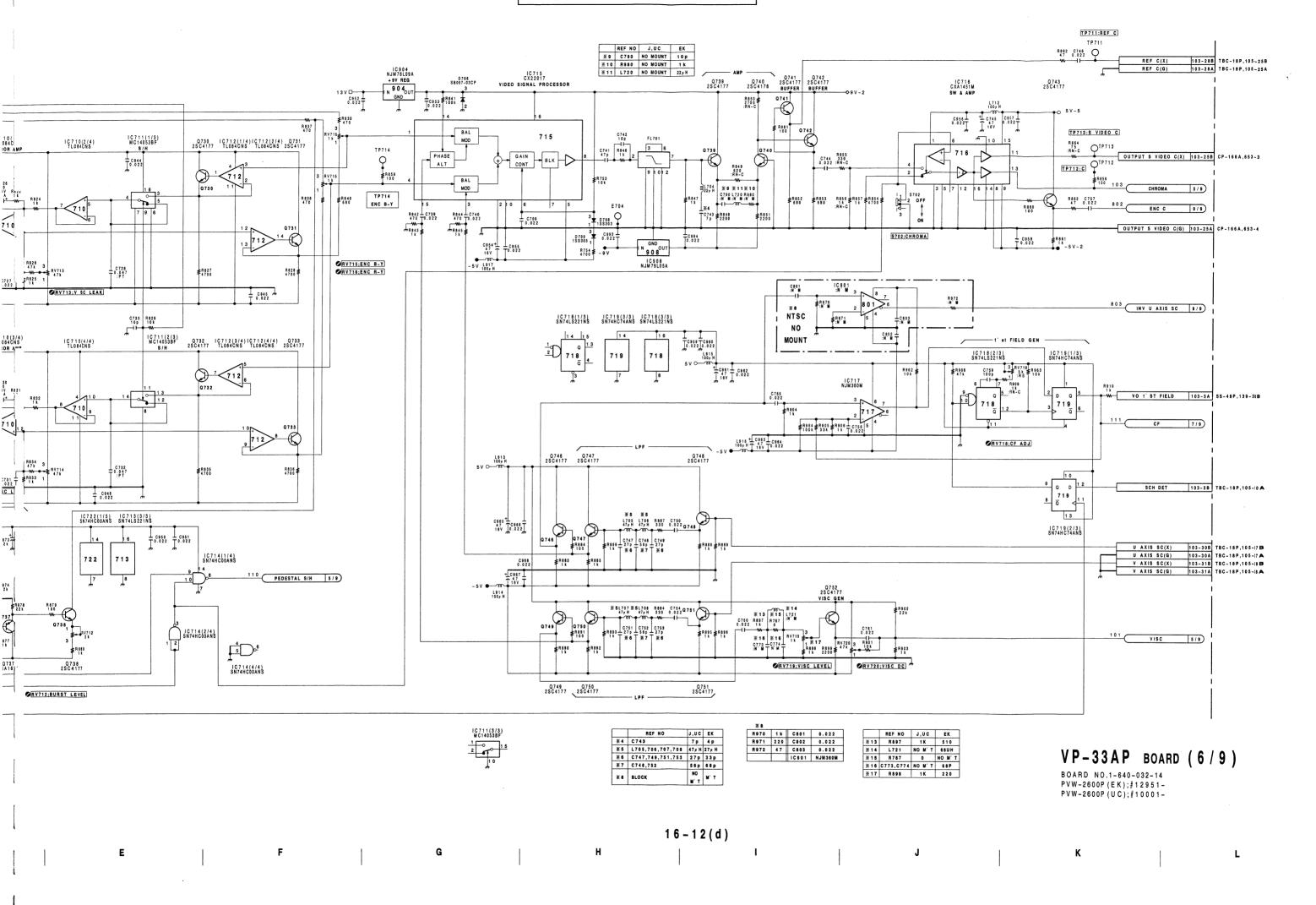
VP-33AP(5/9); COMPOSITE OUT DRIVER



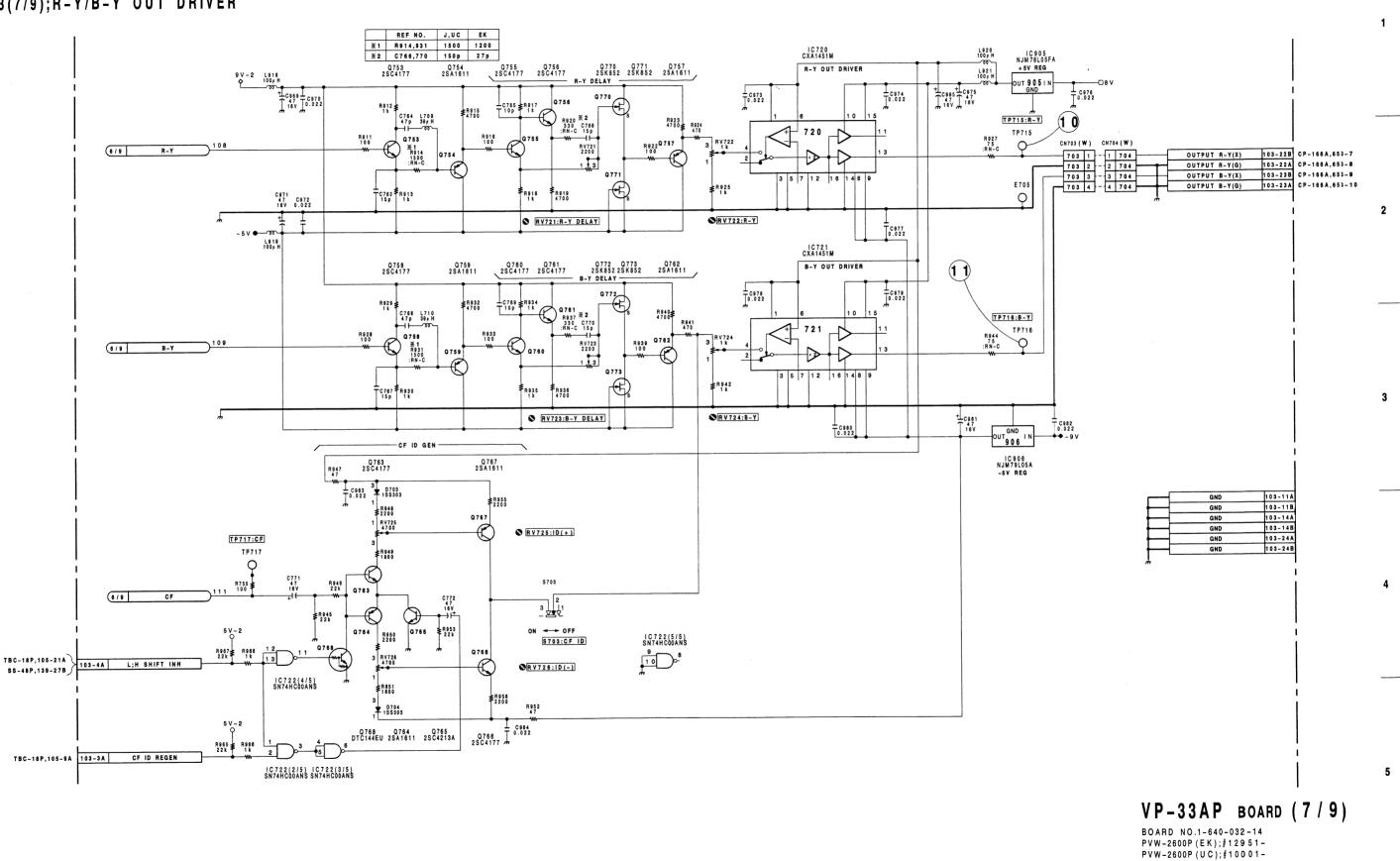
16-11(d) A B C D E F G H







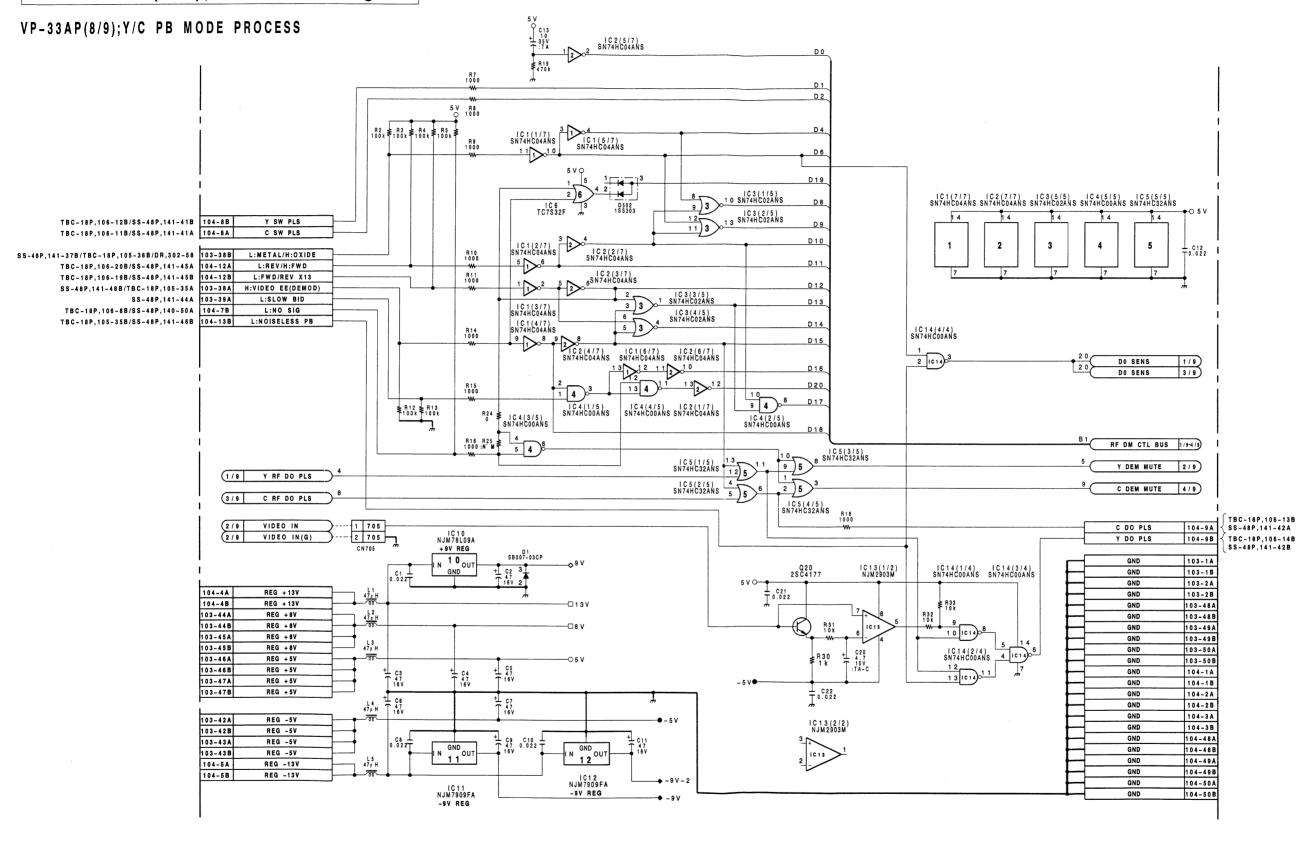
VP-33(7/9); R-Y/B-Y OUT DRIVER



16-13(d)

16-13(d)

E

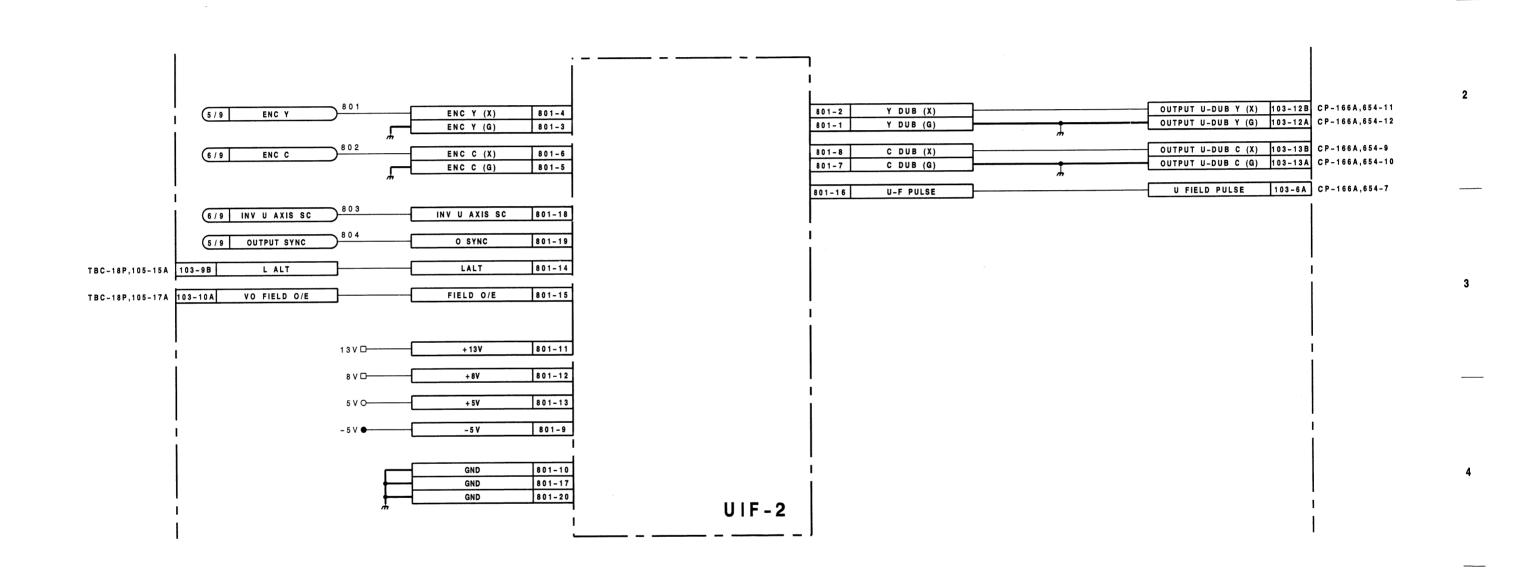


VP-33AP BOARD (8/9)

BOARD NO.1-640-032-14 PVW-2600P (EK); #12951-PVW-2600P (UC); #10001-

16-14(d) A B C D E F G H

VP-33AP(9/9);U-DUB INTERFACE

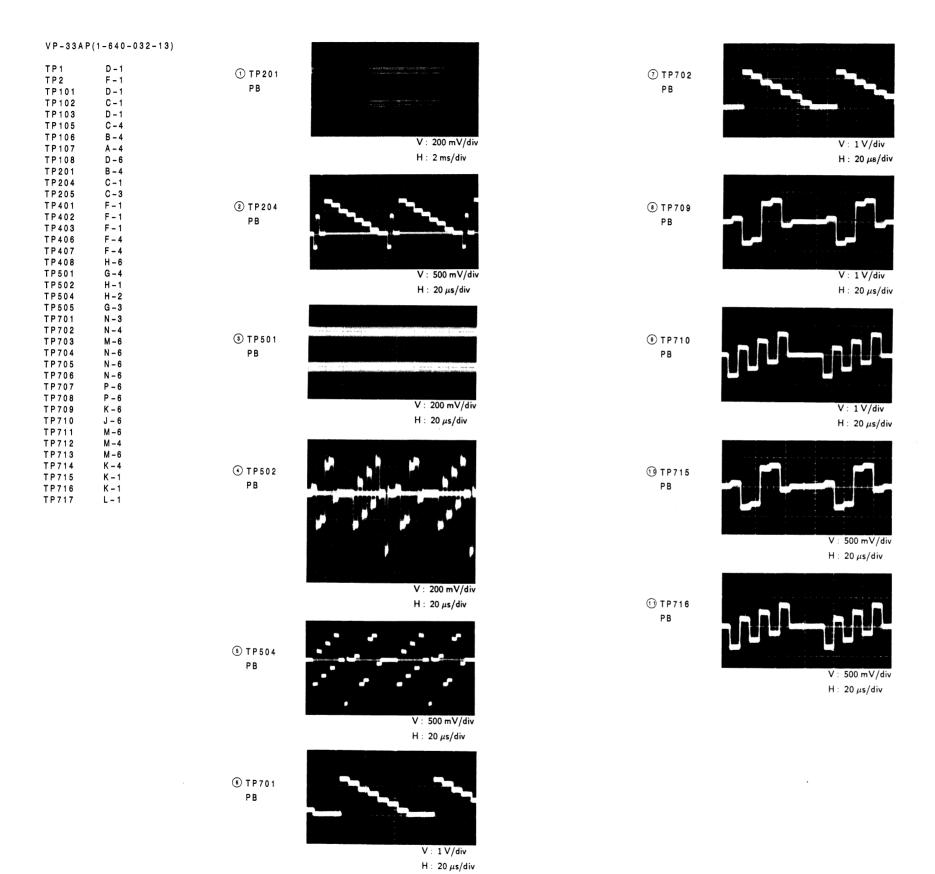


VP-33AP BOARD (9/)

BOARD NO.1-640-032-14 PVW-2600P (EK);#12951-PVW-2600P (UC);#10001-

16-15 **(**d)

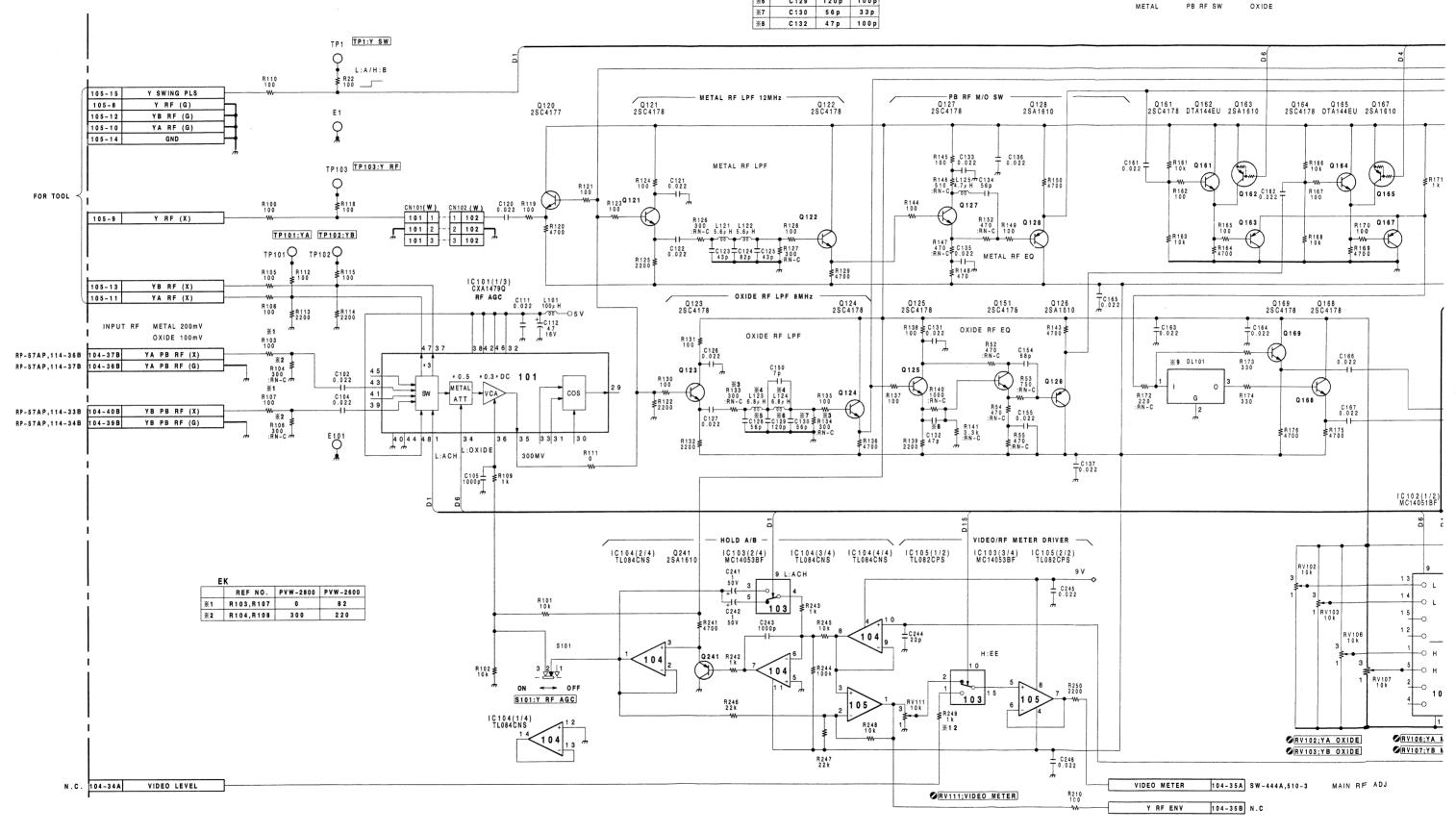
16-15(d)



VP-33AP(1/9);Y RF AGC,Y DO ENVELOPE DETECT

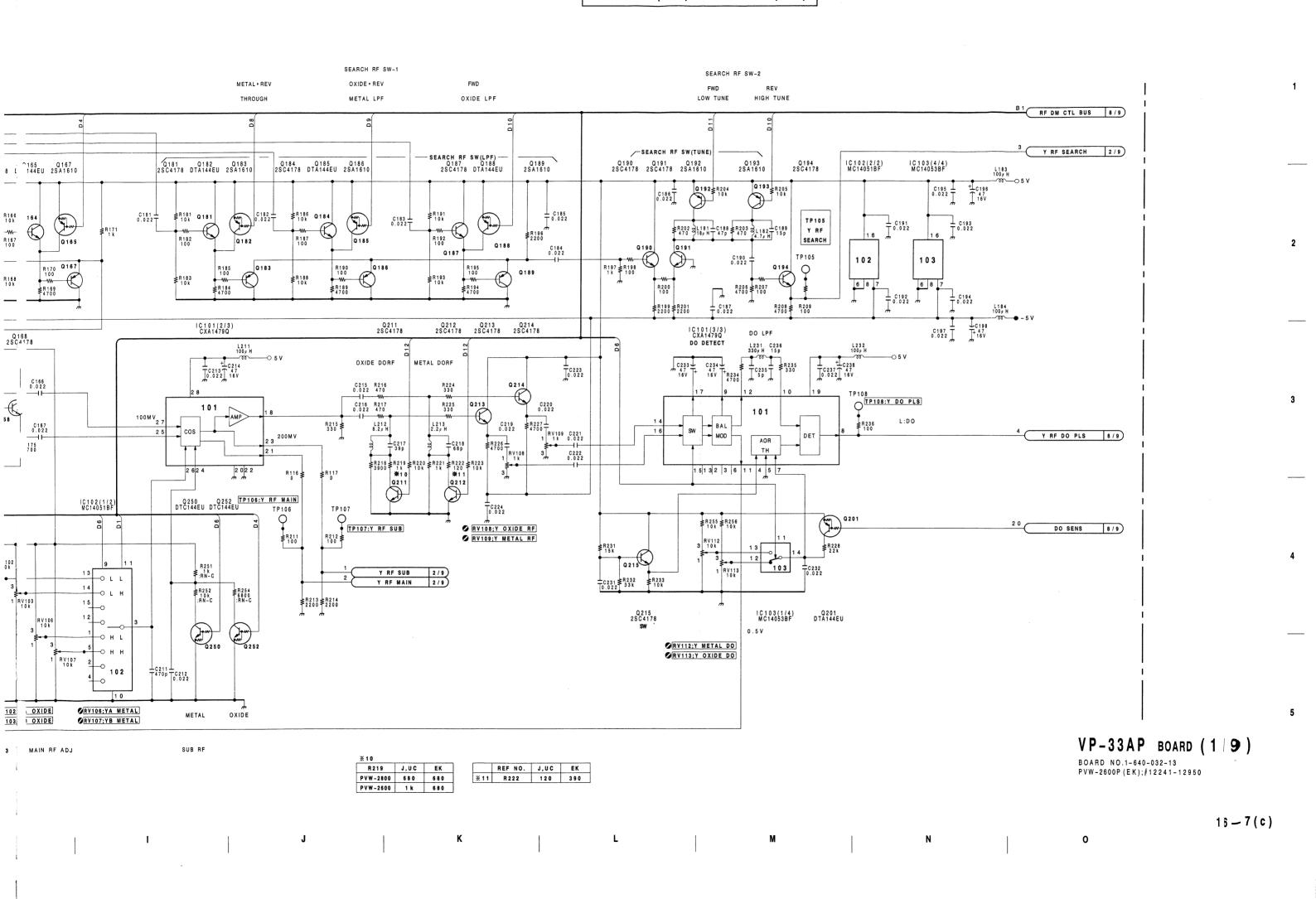
	REF NO.	J,UC	EK
 %3	R133,R134	300	3 3 0
 #4	L123,L124	6.8 µ H	10 µ H
% 5	C128	5 6 p	3 3 p
%6	C129	120p	100p

REF NO.	J,UC	EK
W0 D1404	1-415-546-11	1-415-154-31
※9 DL101	5 0 n s	3 5 n s

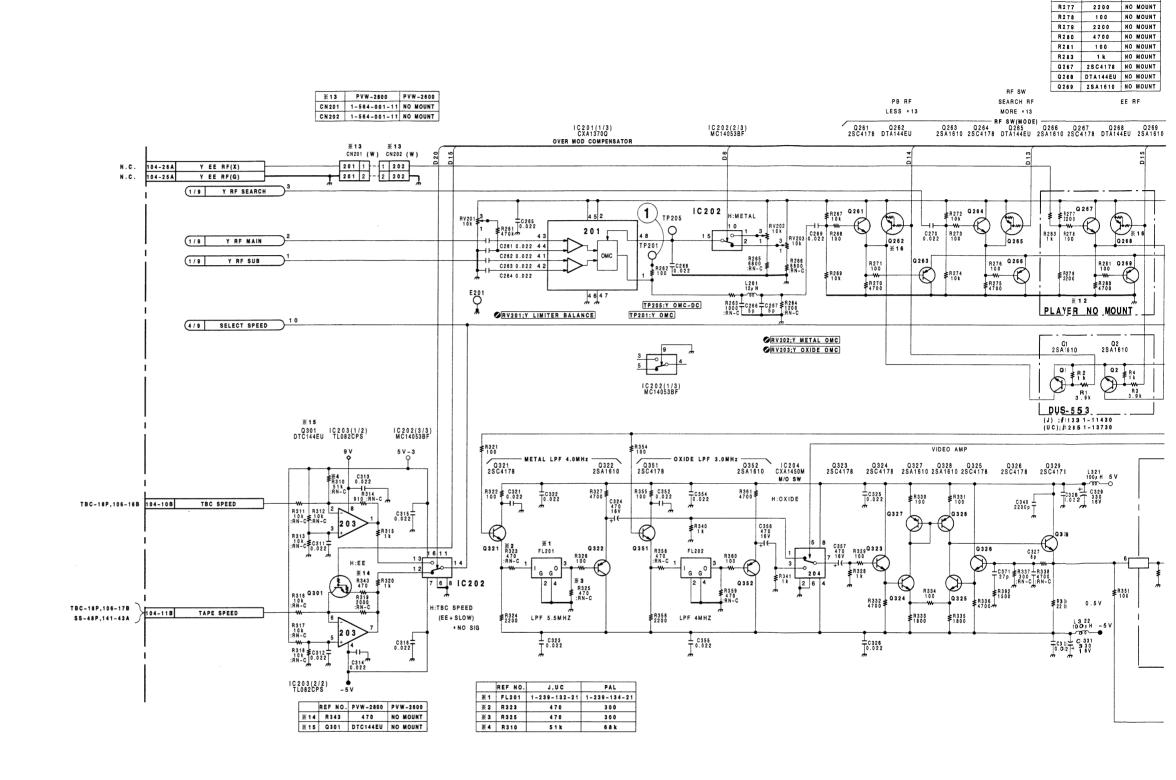


	16-7(0	6 - 7 (c)						
C	D	E	F		G	Н		

REF NO. PVW-2800 PVW-2600

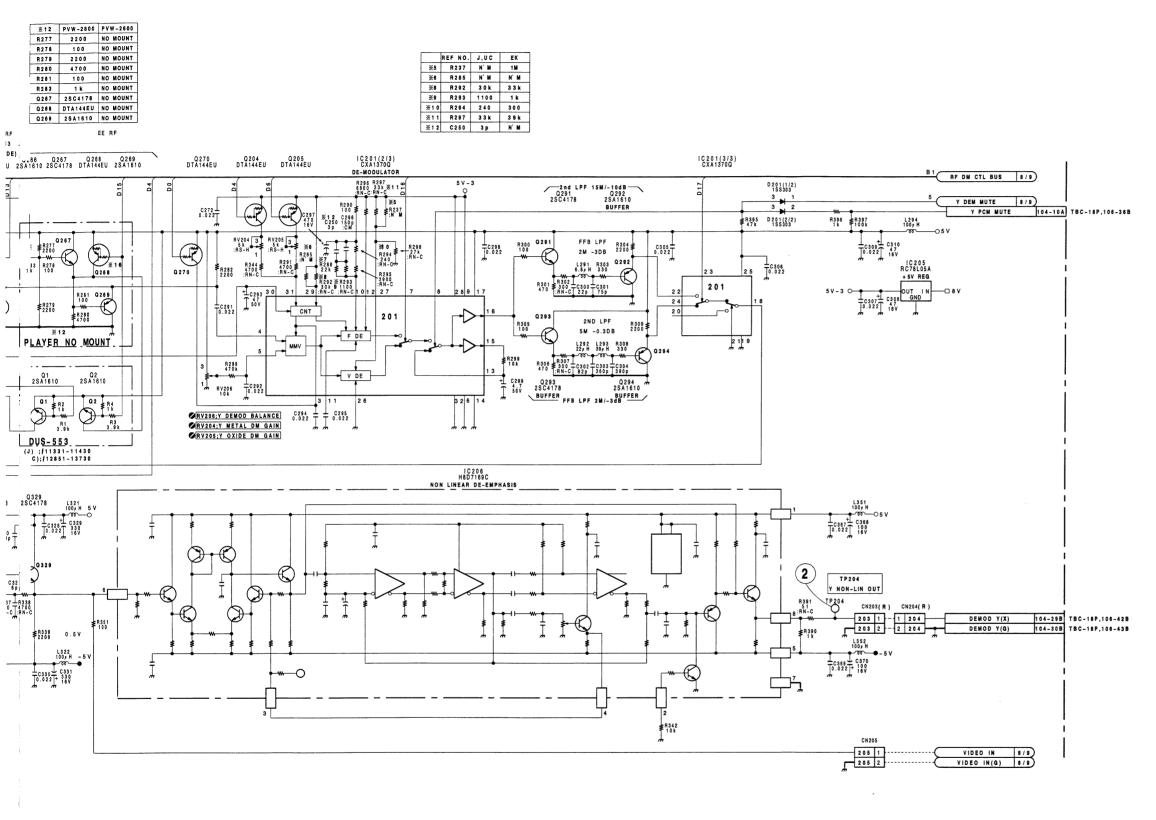


VP-33AP(2/9);Y DE-MODULATOR, NON LINEAR DE-EMPHASIS



12 PVW-2800 PVW-2600

16-8(c) A B C D E F G H

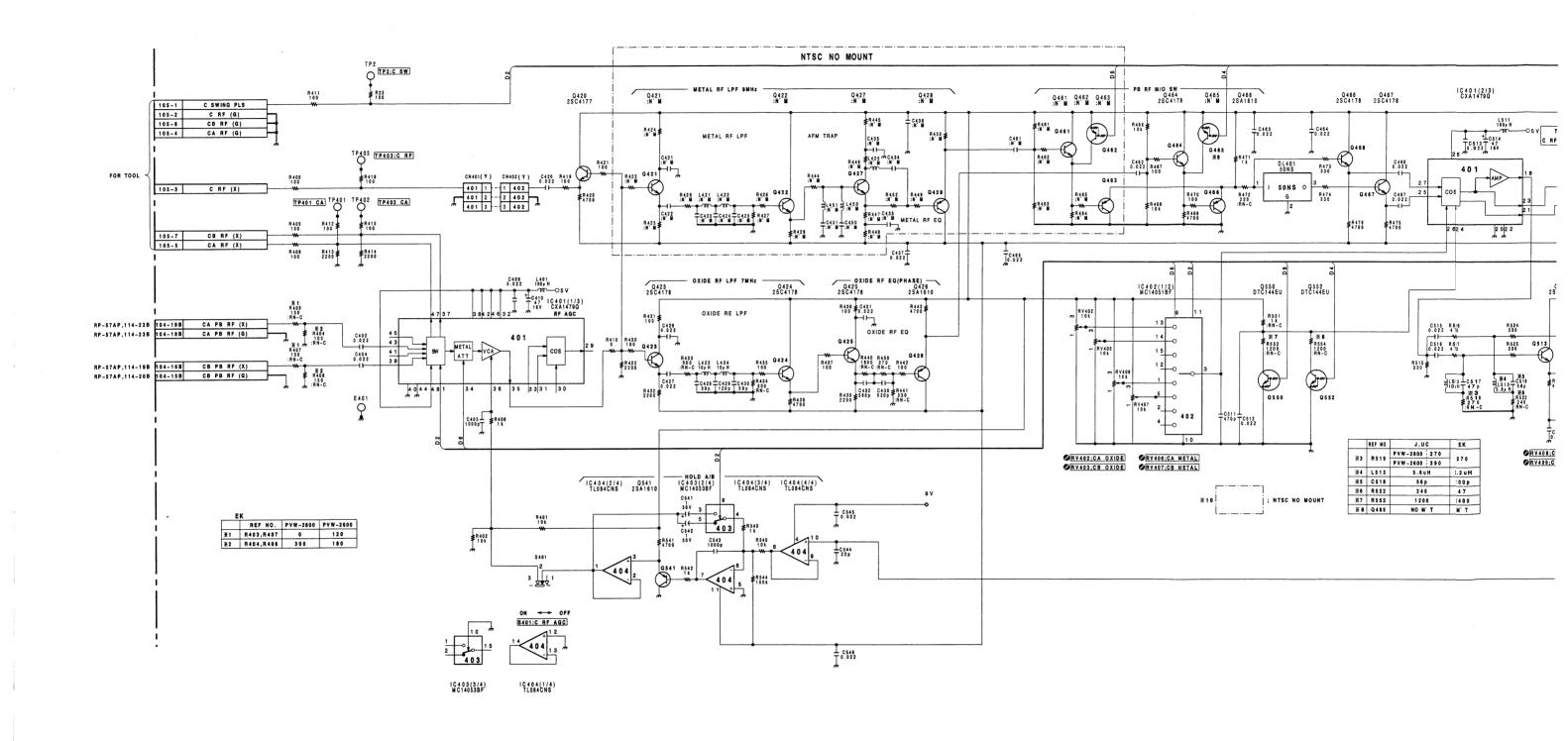


VP-33AP BOARD (2/9)

BOARD NO.1-640-032-13 PVW-2600P(EK);#12241-12950

16-8(c)

VP-33AP(3/9); C PB RF EQ, C RF AGC, C DO DETECT

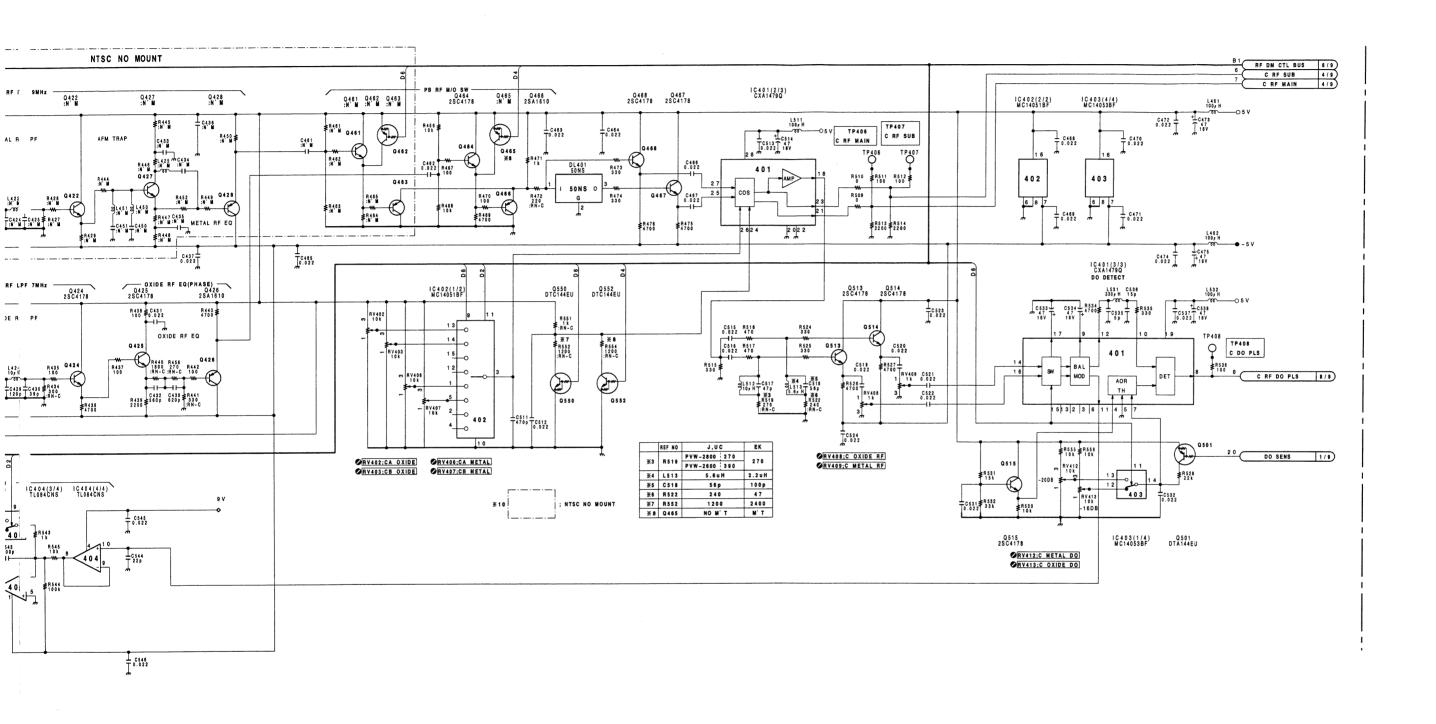


16-9(c)

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G

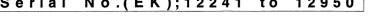
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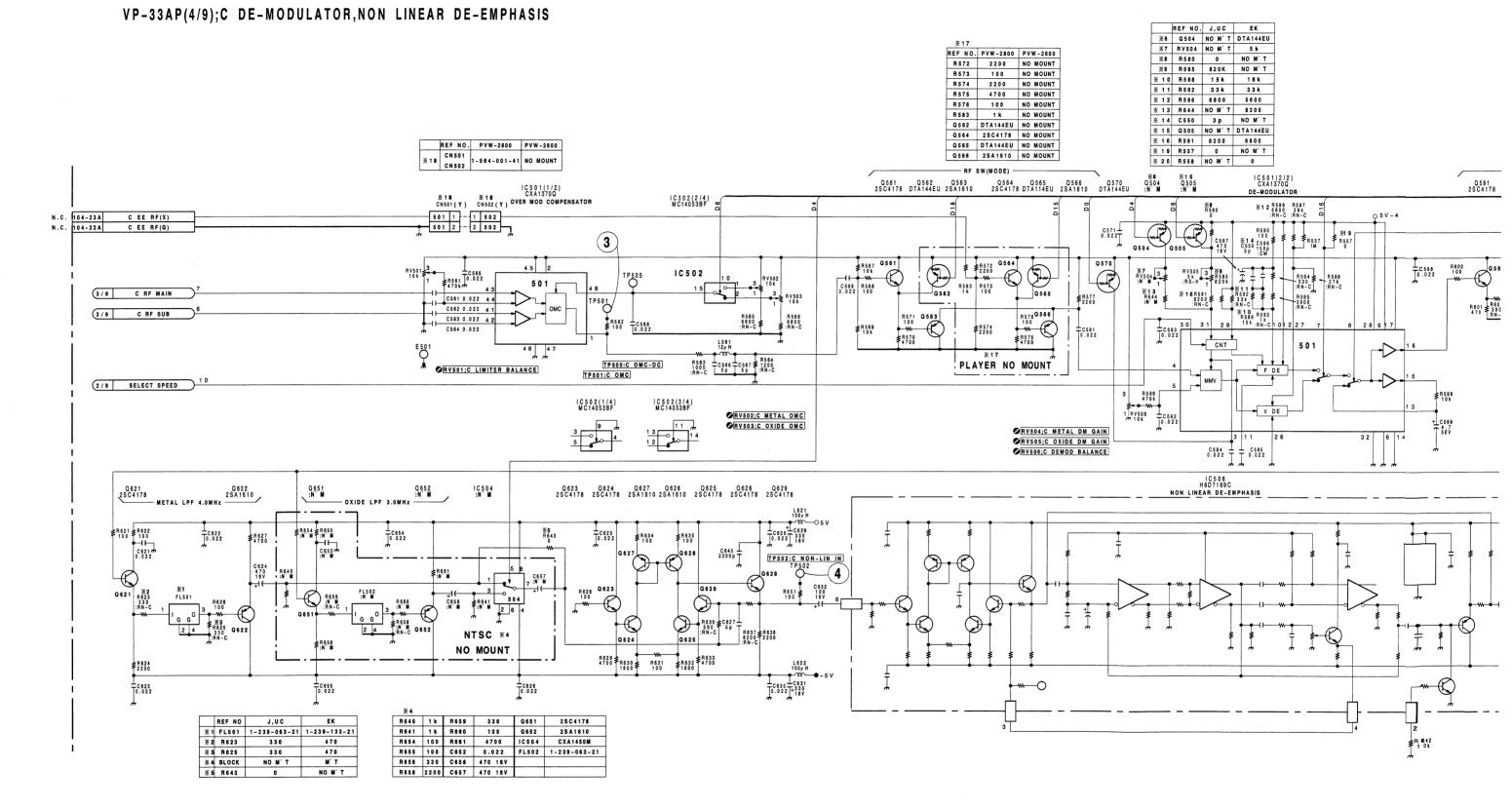


VP-33AP BOARD (3/9)

BOARD NO.1-640-032-13 PVW-2600P(EK);#12241-12950

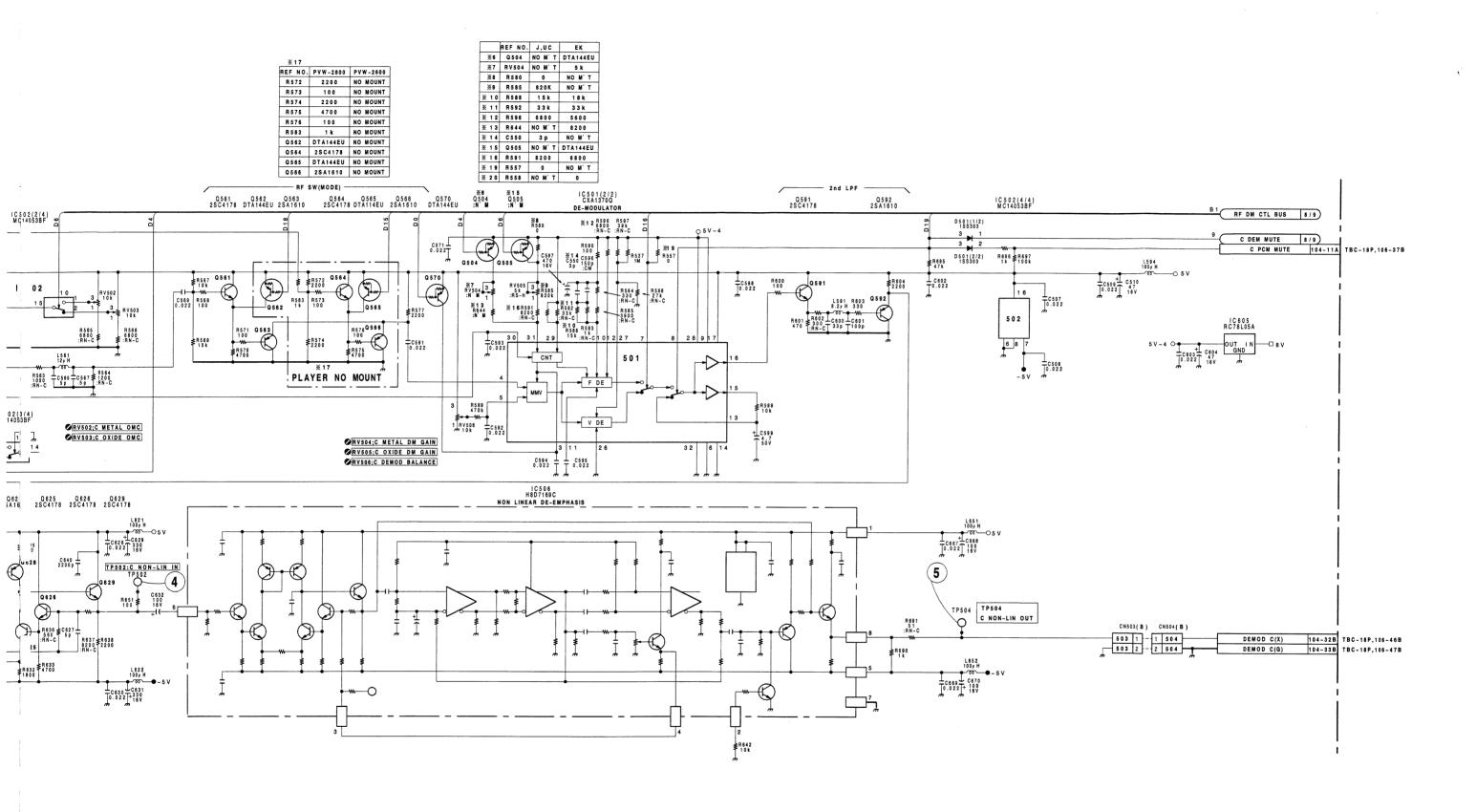
9(c) E F G H I J K L 2





16-10(c)

16-10(c



VP-33AP BOARD (4/9)

BOARD NO.1-640-032-13 PVW-2600P(EK);#12241-12950

16-10(c)

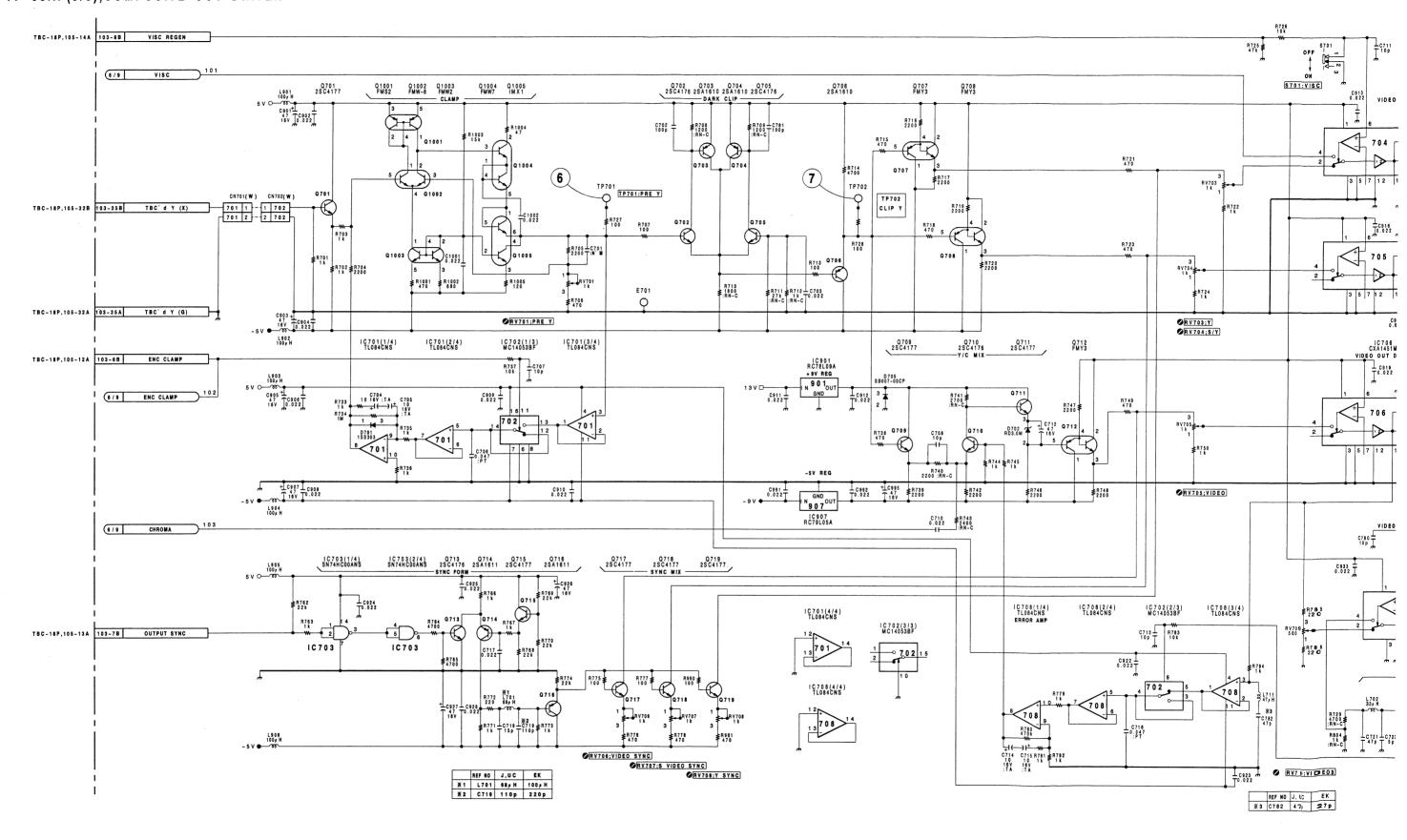
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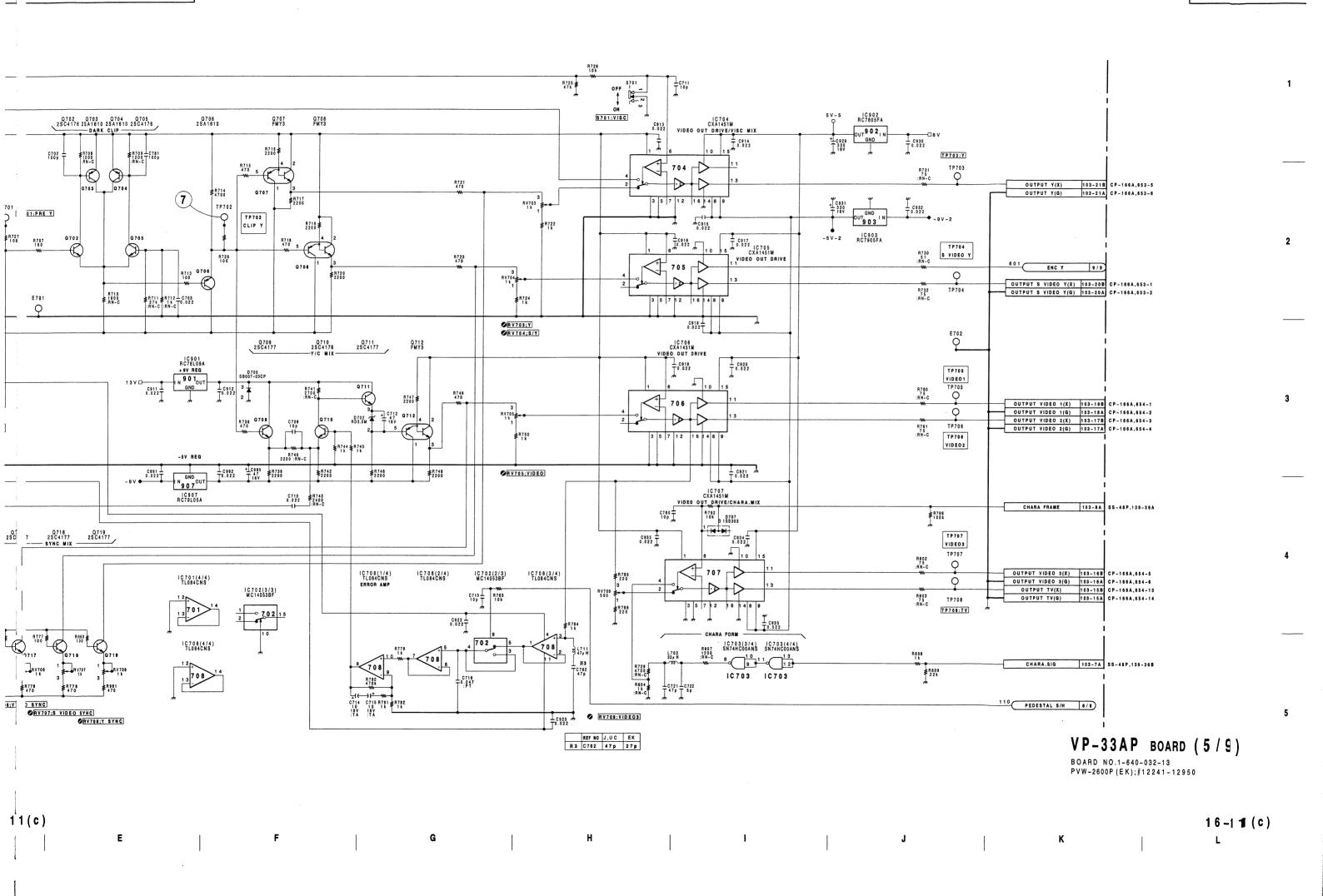
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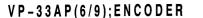
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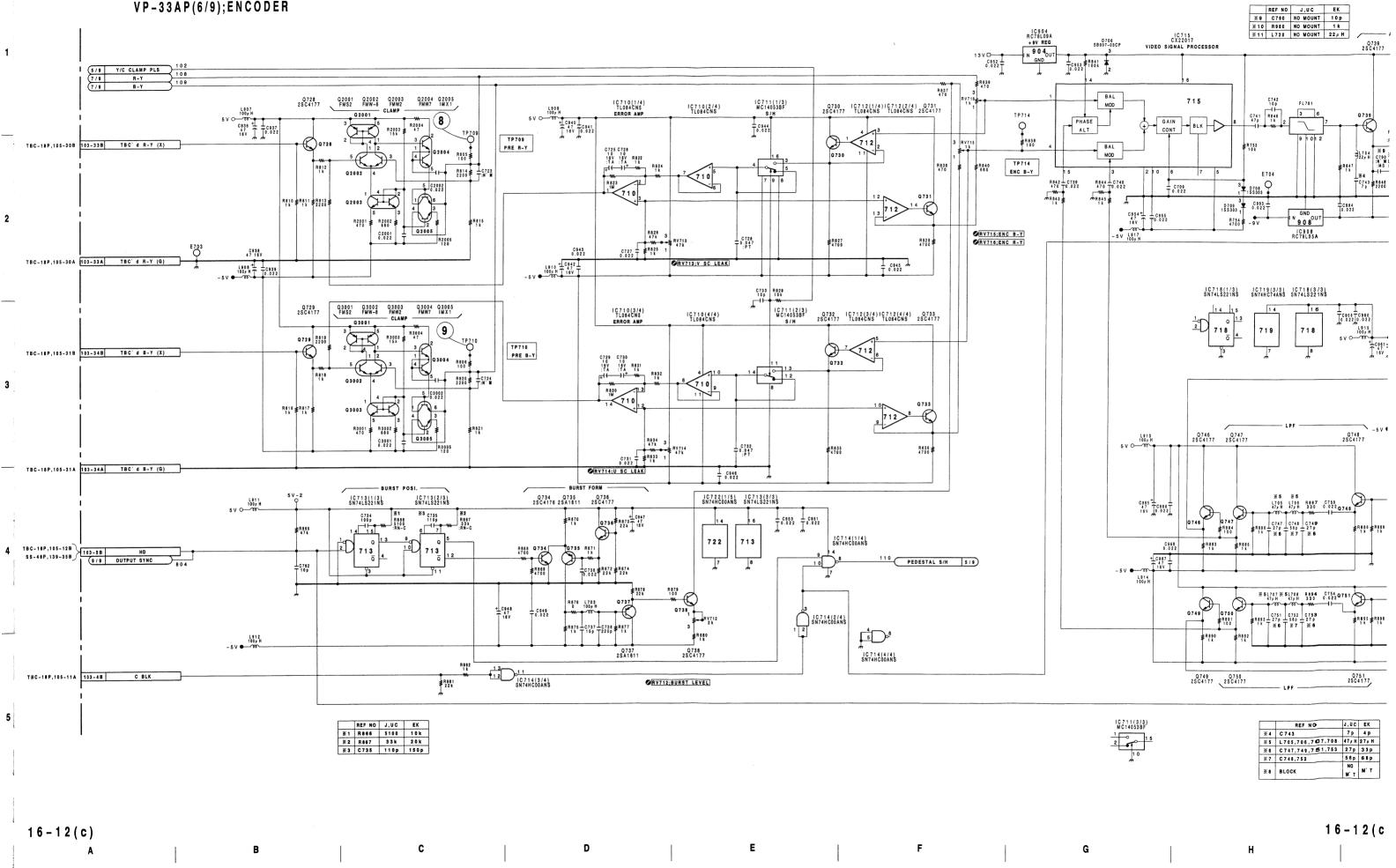
VP-33AP(5/9); COMPOSITE OUT DRIVER

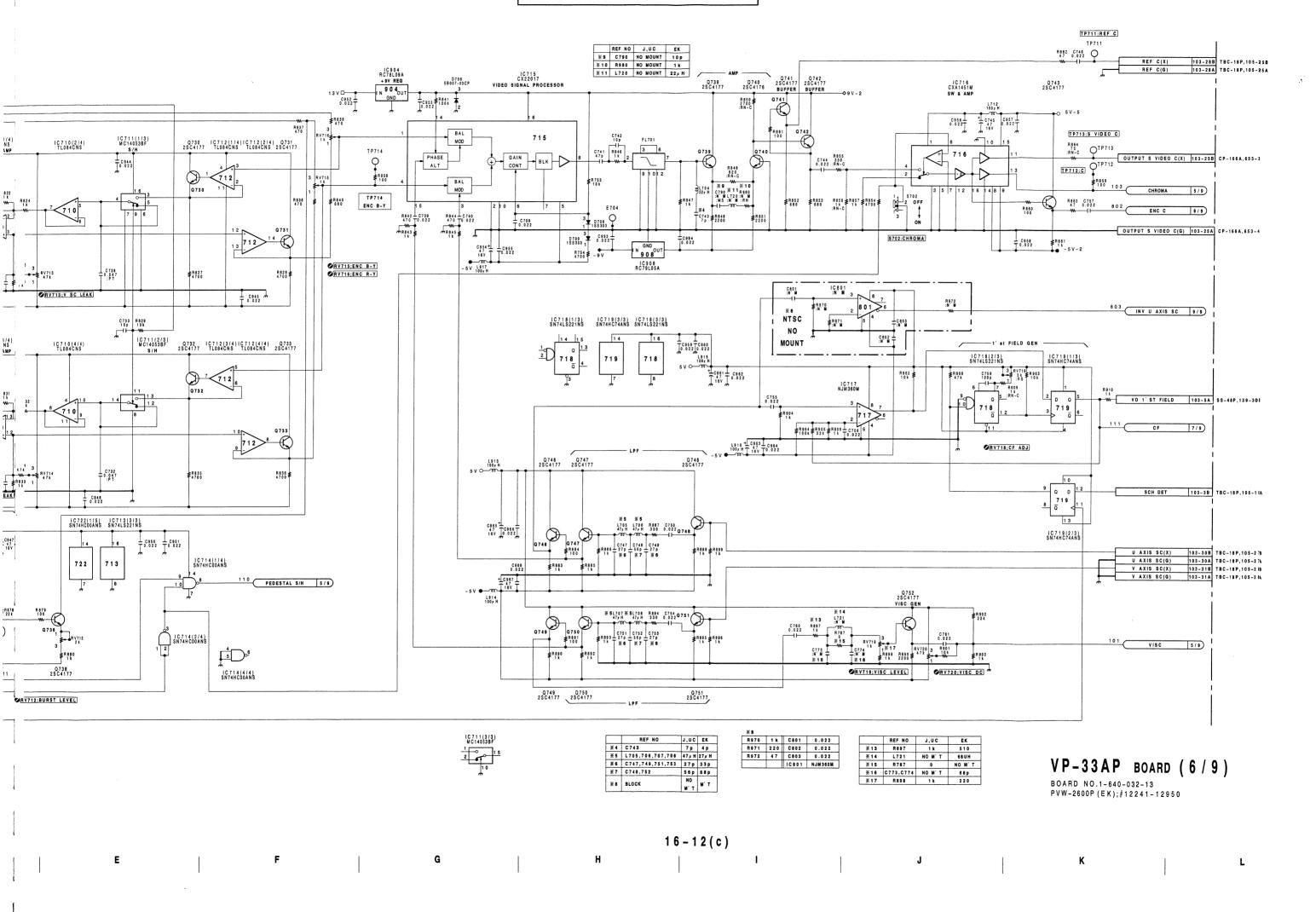


16-11(c) A B C D E F G H

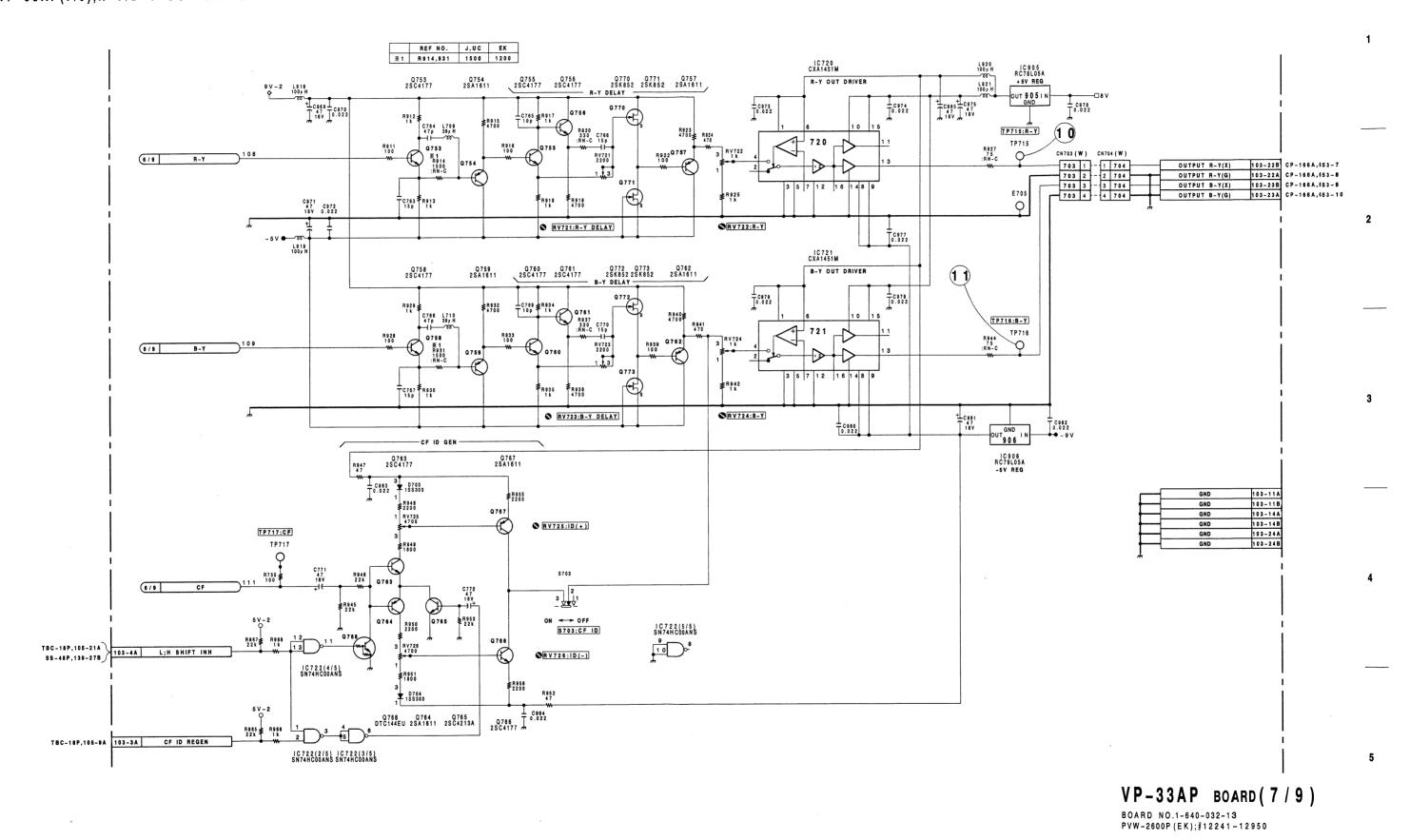








VP-33AP(7/9);R-Y/B-Y OUT DRIVER



16-13(c)

16-11(c)

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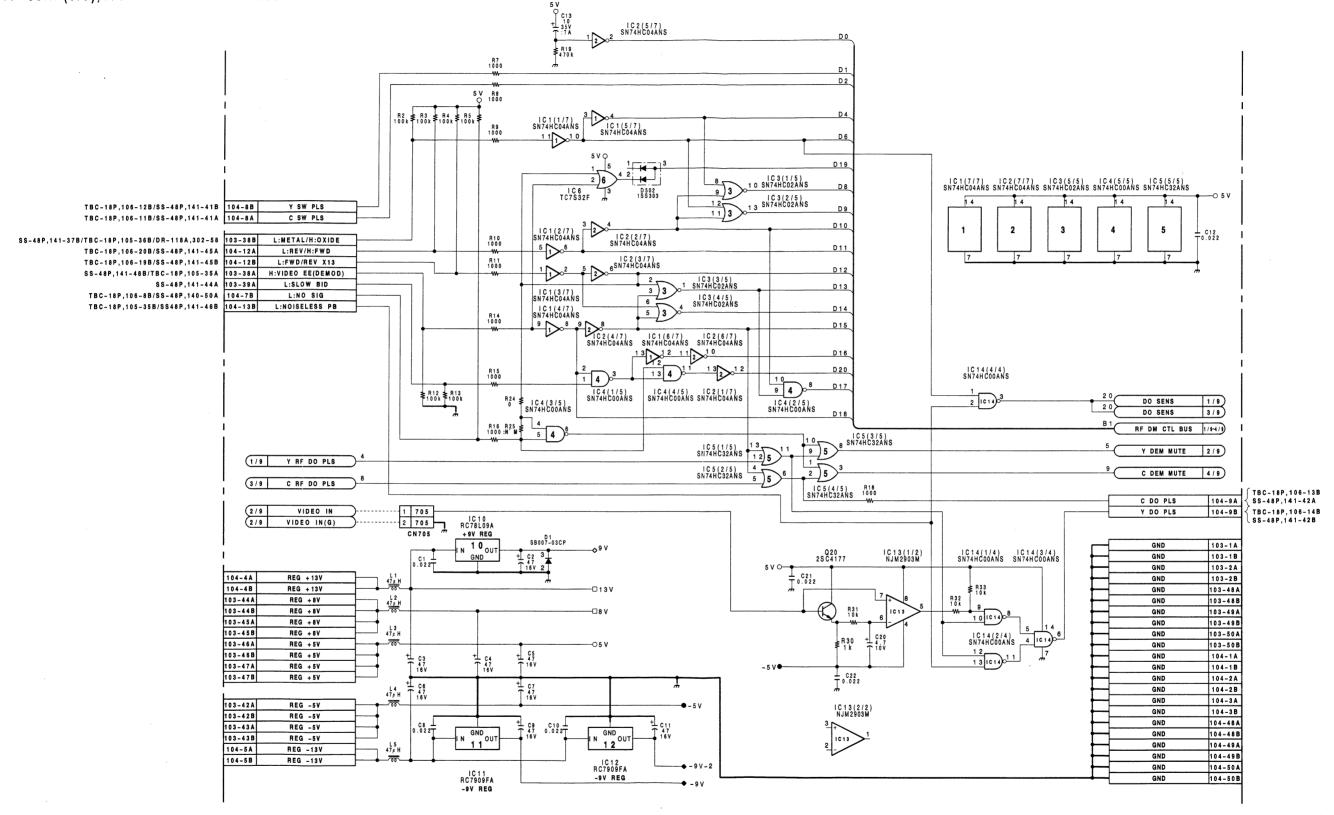
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VP-33AP(8/9);Y/C PB MODE PROCESS

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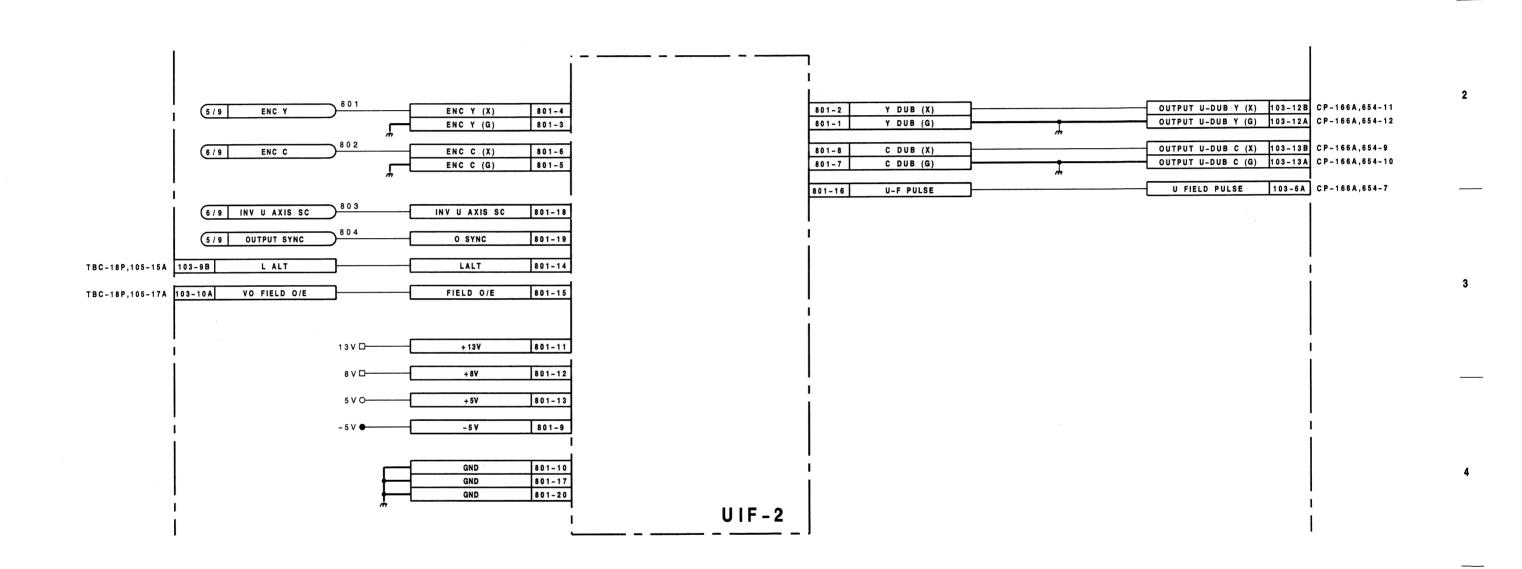


VP-33AP BOARD (8/9)

BOARD NO.1-640-032-13 PVW-2600P(EK);#12241-12950

16-14(c) A B C D E F G H

VP-33AP(9/9);U-DUB INTERFACE



VP-33AP BOARD (9/9)

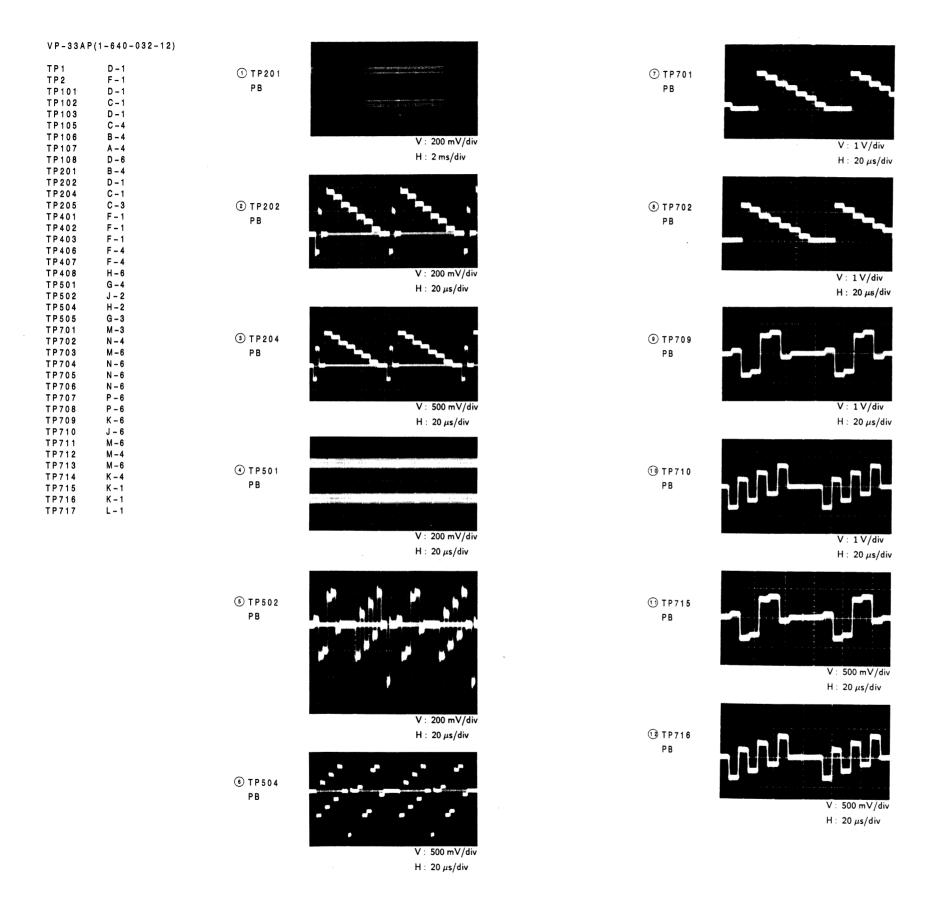
BOARD NO.1-640-032-13 PVW-2600P(EK);#12241-12950

16-15(c)

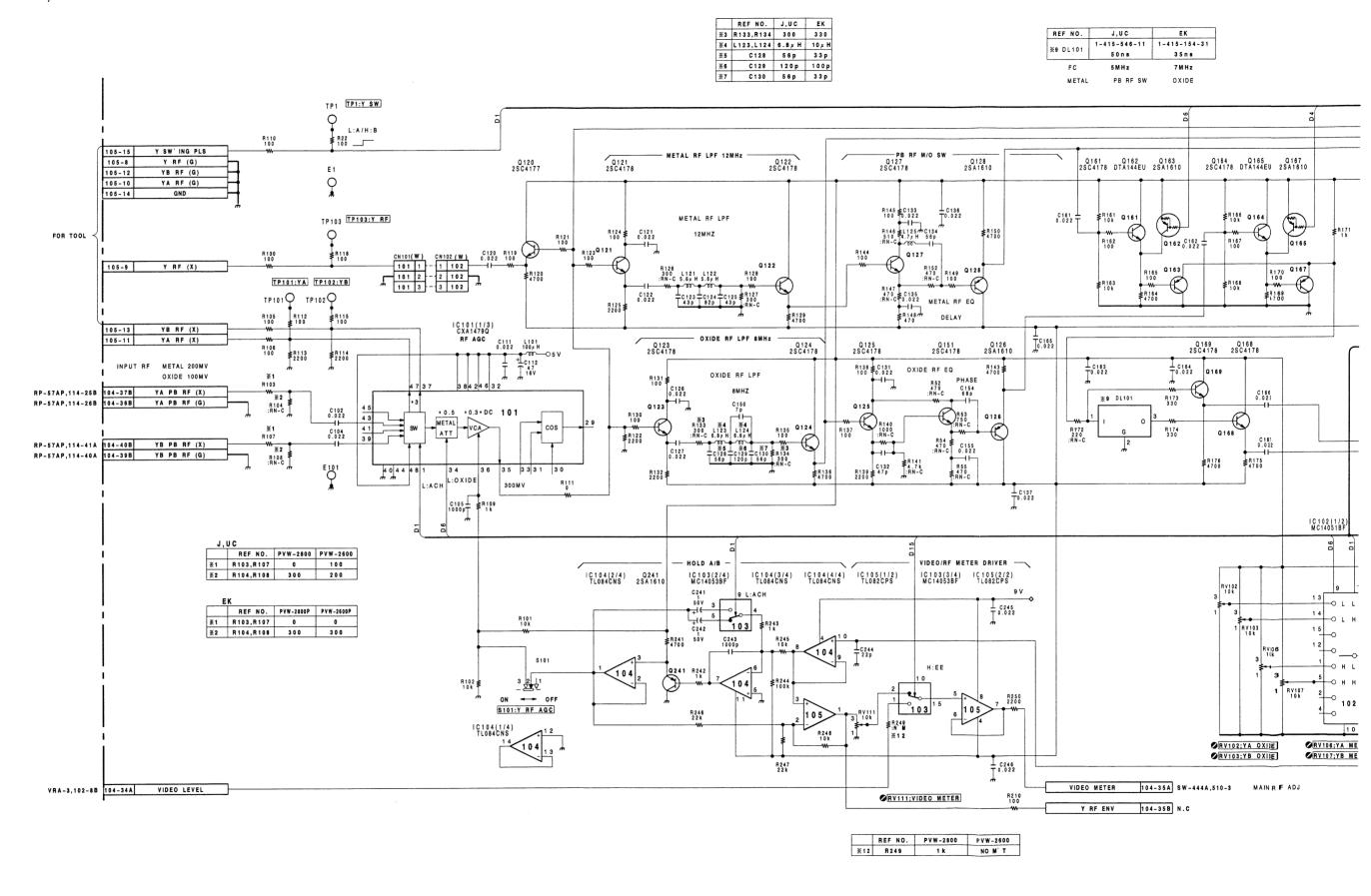
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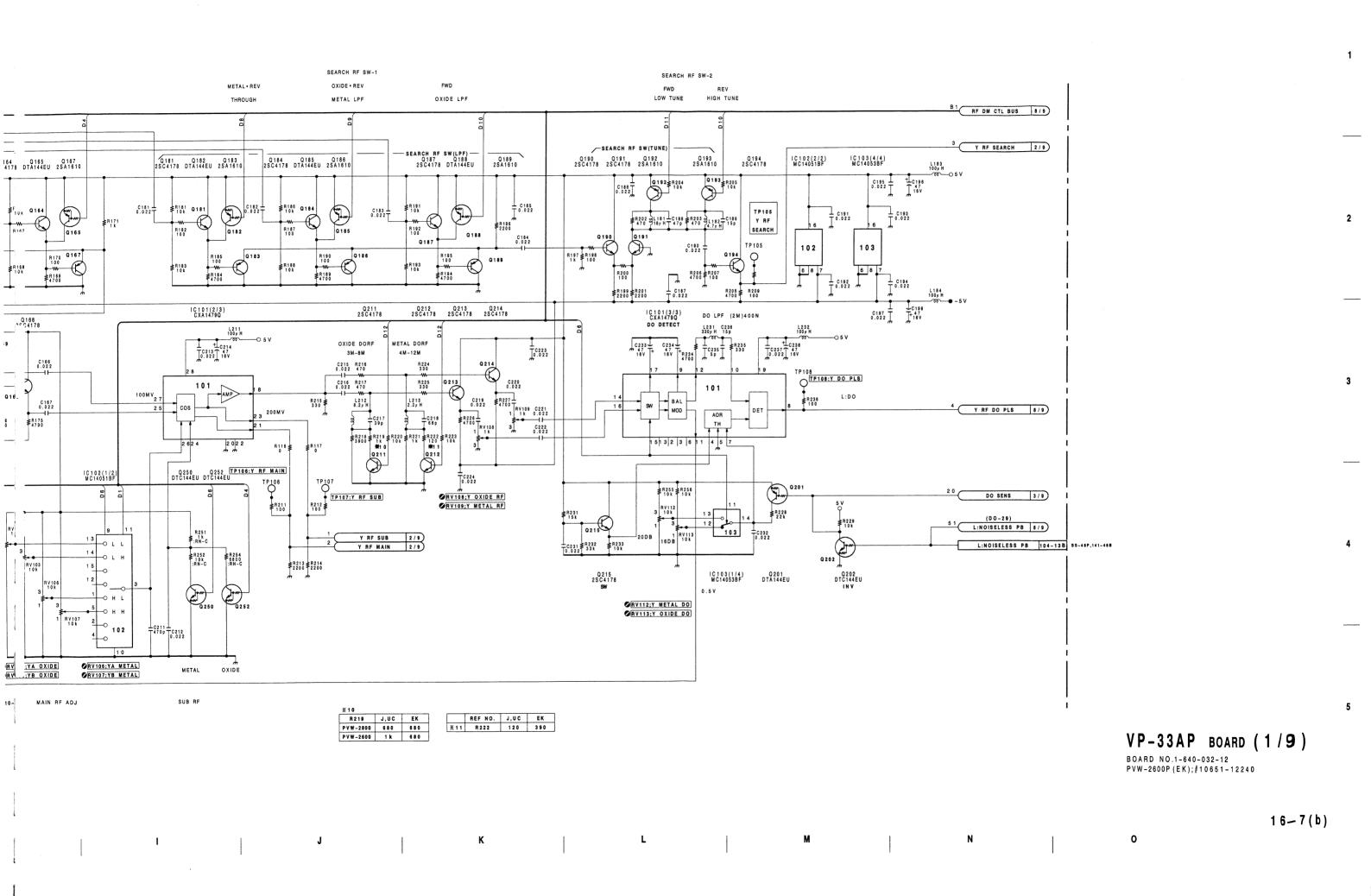
16-15 **(**C)



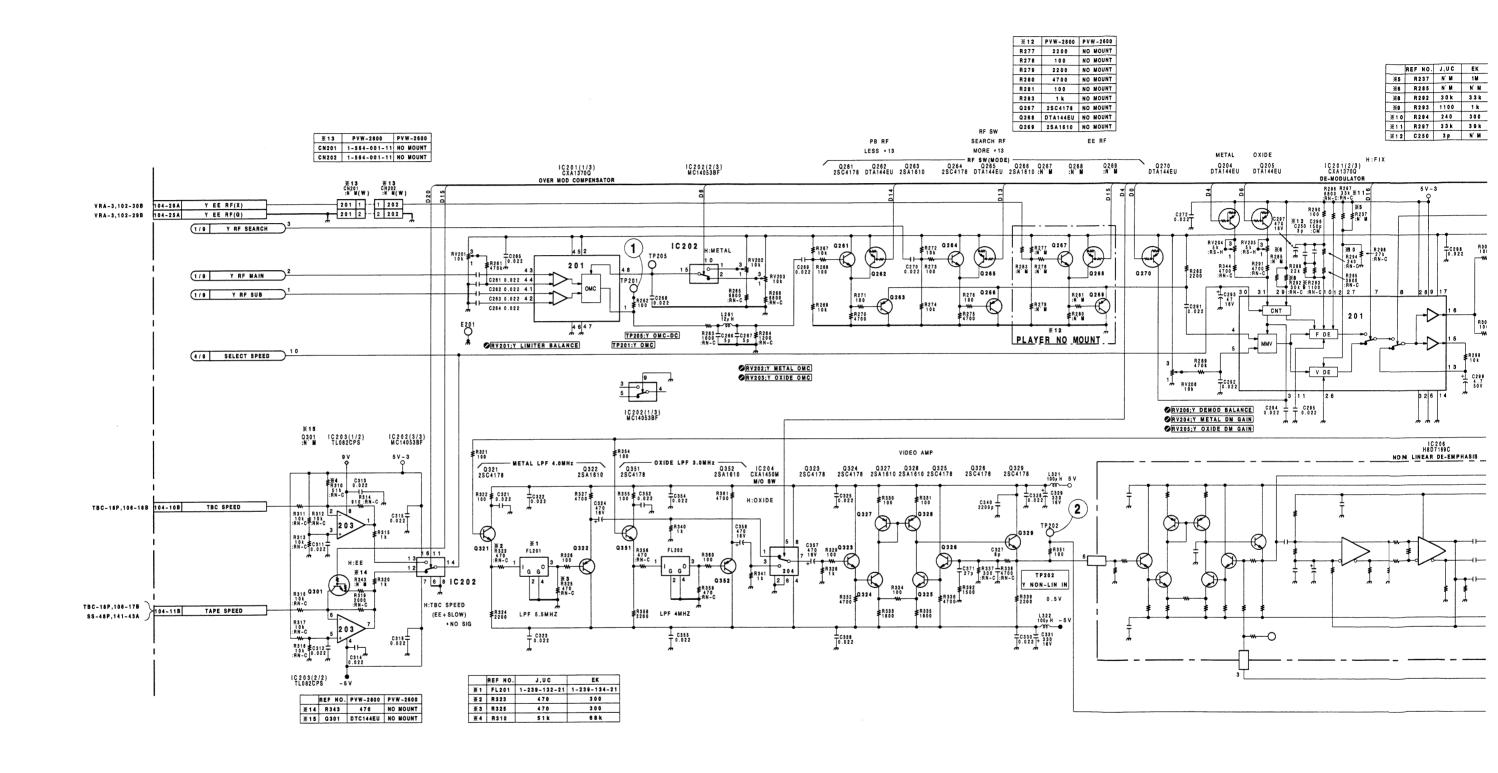
VP-33AP(1/9); Y RF AGC, Y DO ENVELOPE DETECT



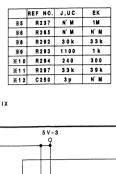
16-7(b)

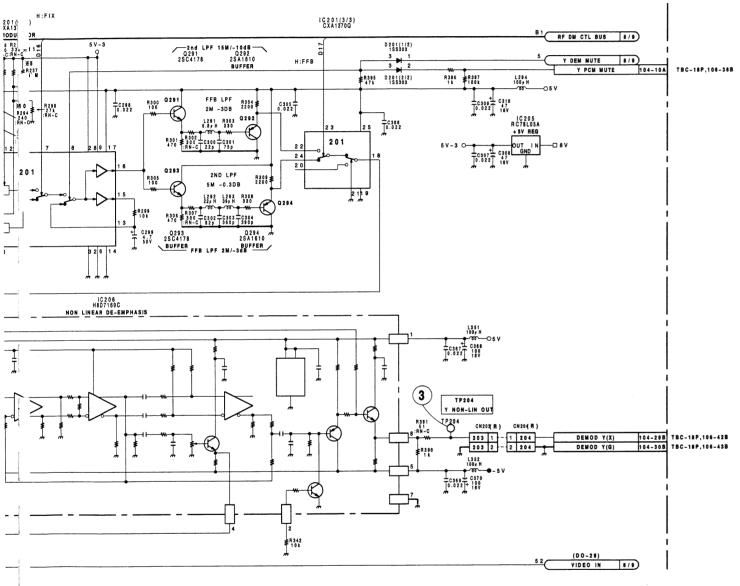


VP-33AP(2/9); DE-MODULATOR, NON LINEAR DE-EMPHASIS



16-8(b) A B C D E F G H





VP-33AP BOARD (2/9)

BOARD NO.1-640-032-12 PVW-2600P(EK); #10651-12240

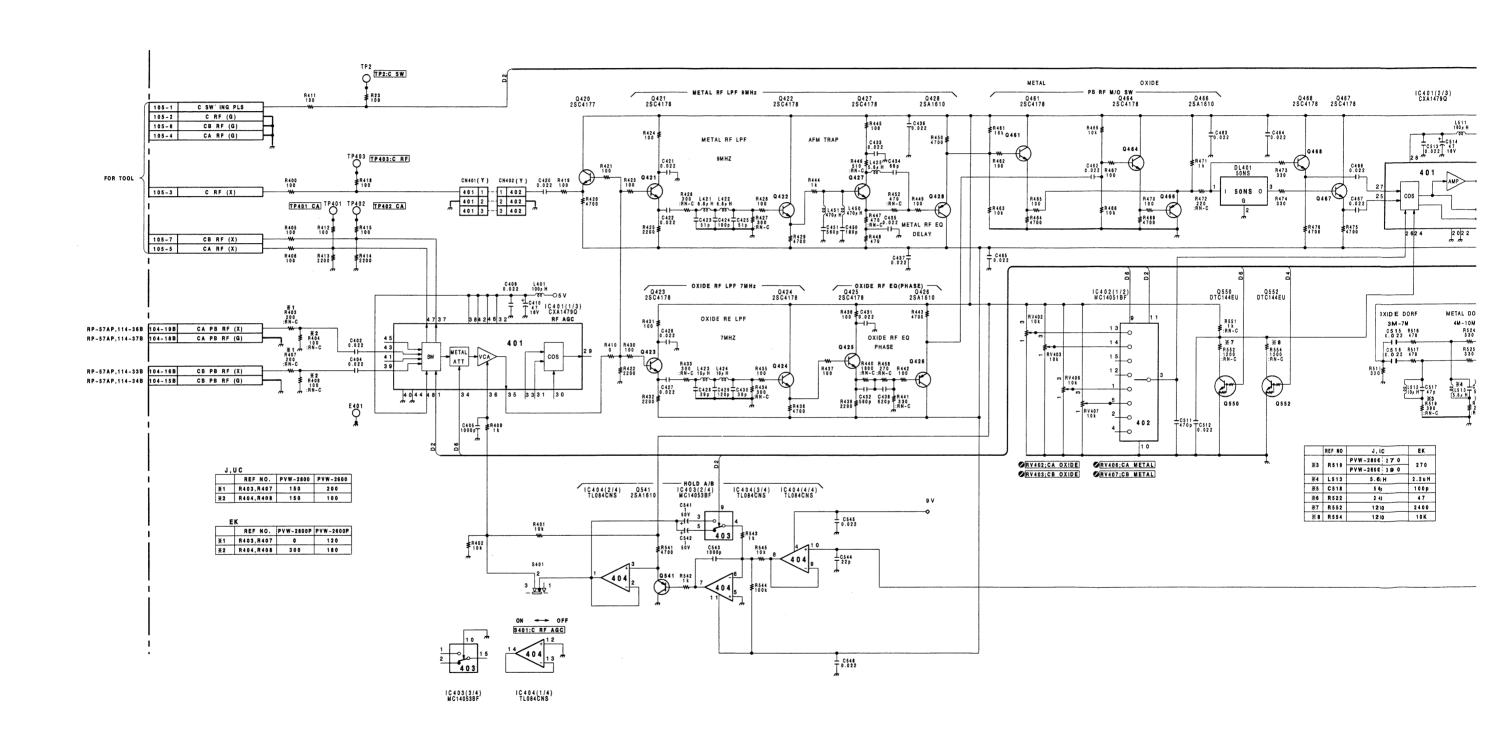
> 16-8(b) | L | M | N |

Two objects to the state of the

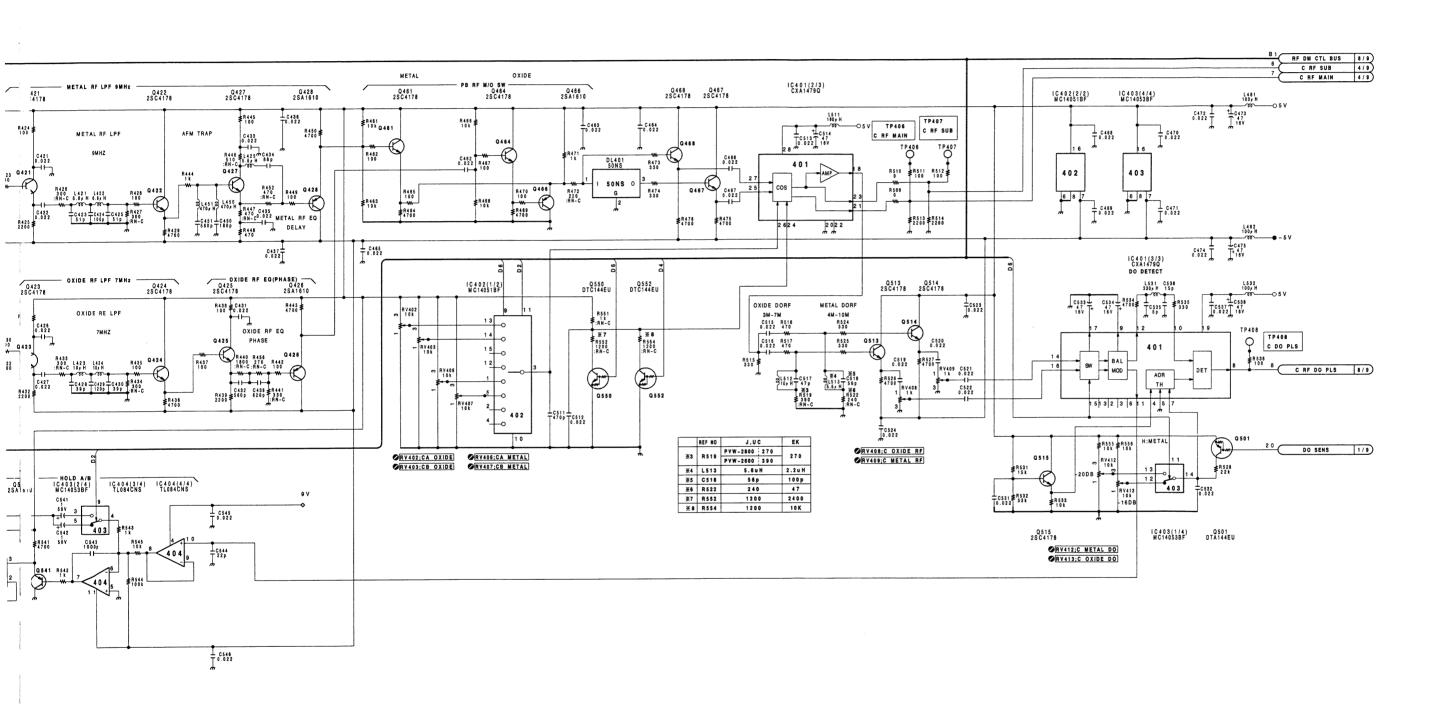
J

K

VP-33AP(3/9); C PB EQ, C RF AGC, DO DETECT



16-9(b) B C D E F G H



VP-33AP BOARD (3/9)

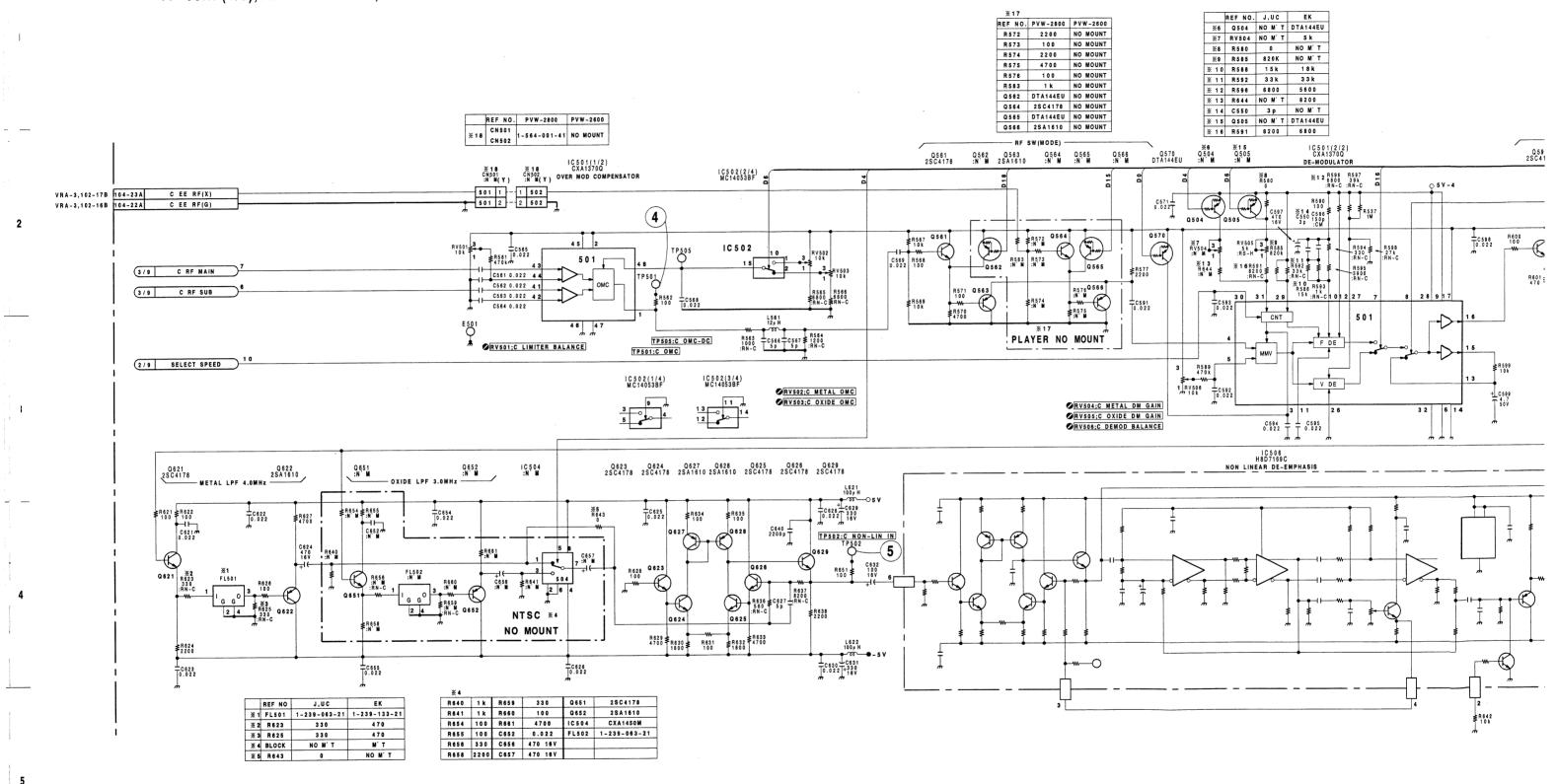
BOARD NO.1-640-032-12 PVW-2600P (EK); #10651-12240

16-9 (b)

-9(b)

3 / P(3/9) VP-33AP(3/9)

VP-33AP(4/9);DE-MODULATOR,NON LINEAR DE-EMPHASIS



16-10

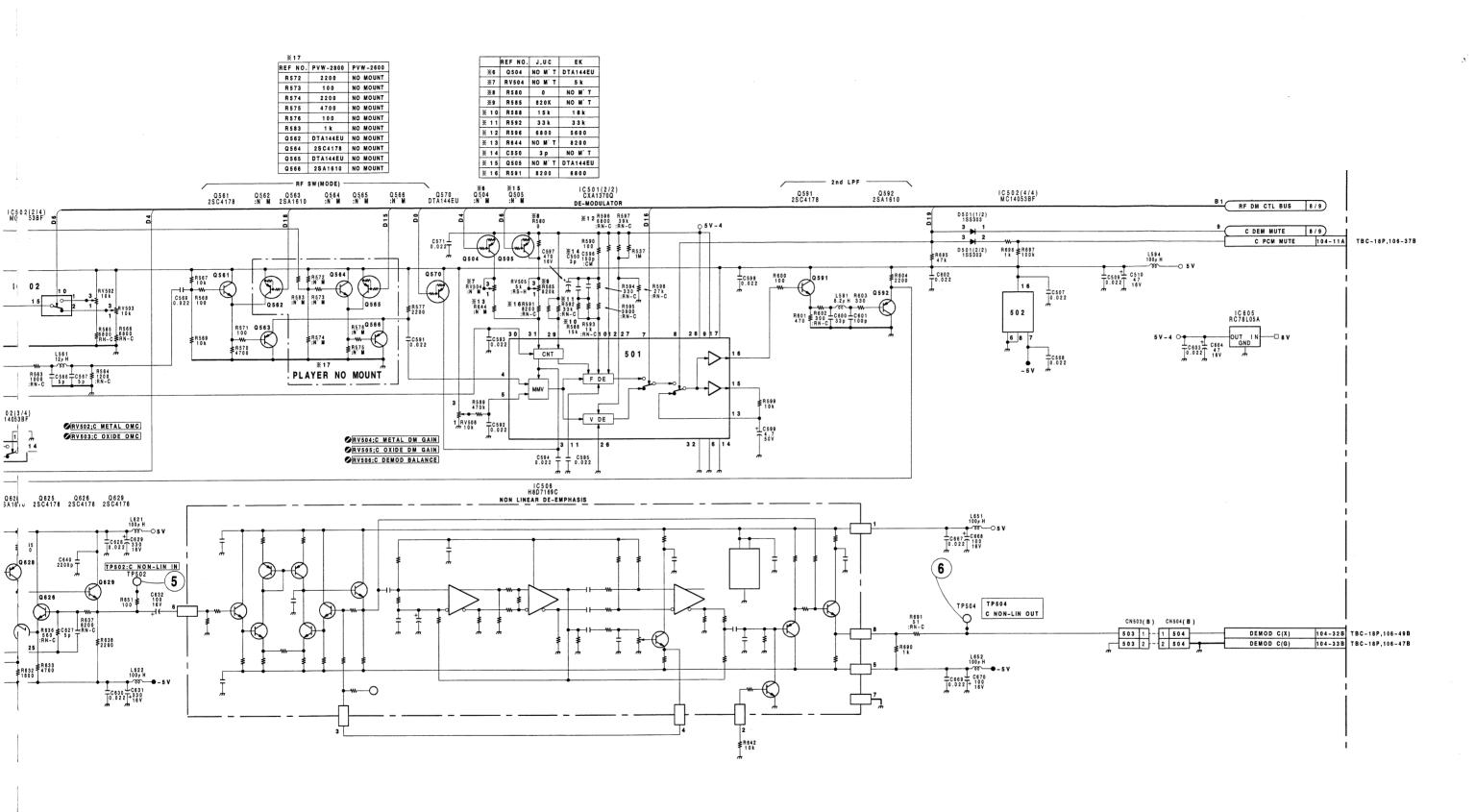
16-10(b)

C

D

E

F

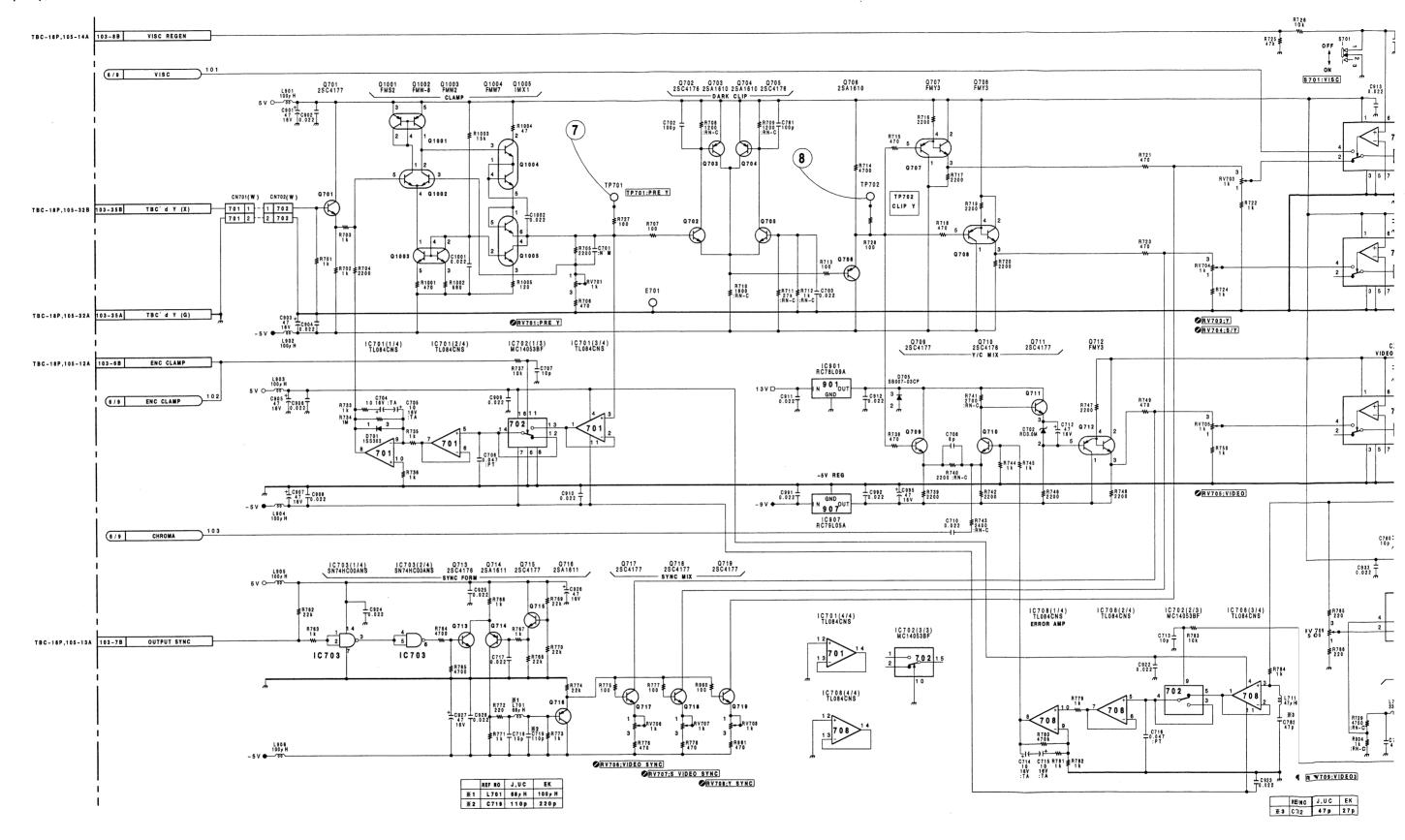


VP-33AP BOARD (4/9)

BOARD NO.1-640-032-12 PVW-2600P (EK);#10651-12240

16-10(b)

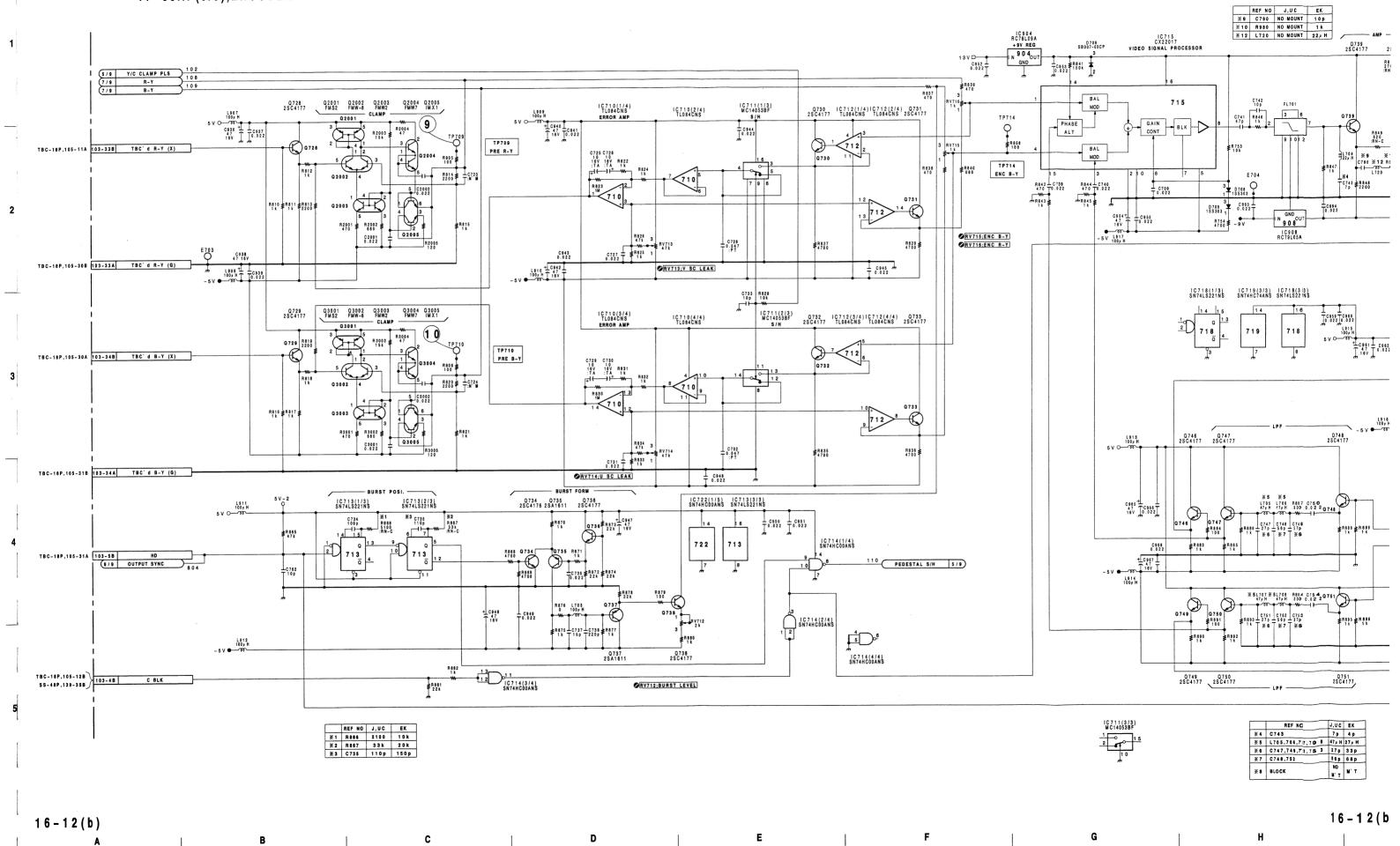
VP-33AP(5/9); COMPOSITE OUT DRIVER

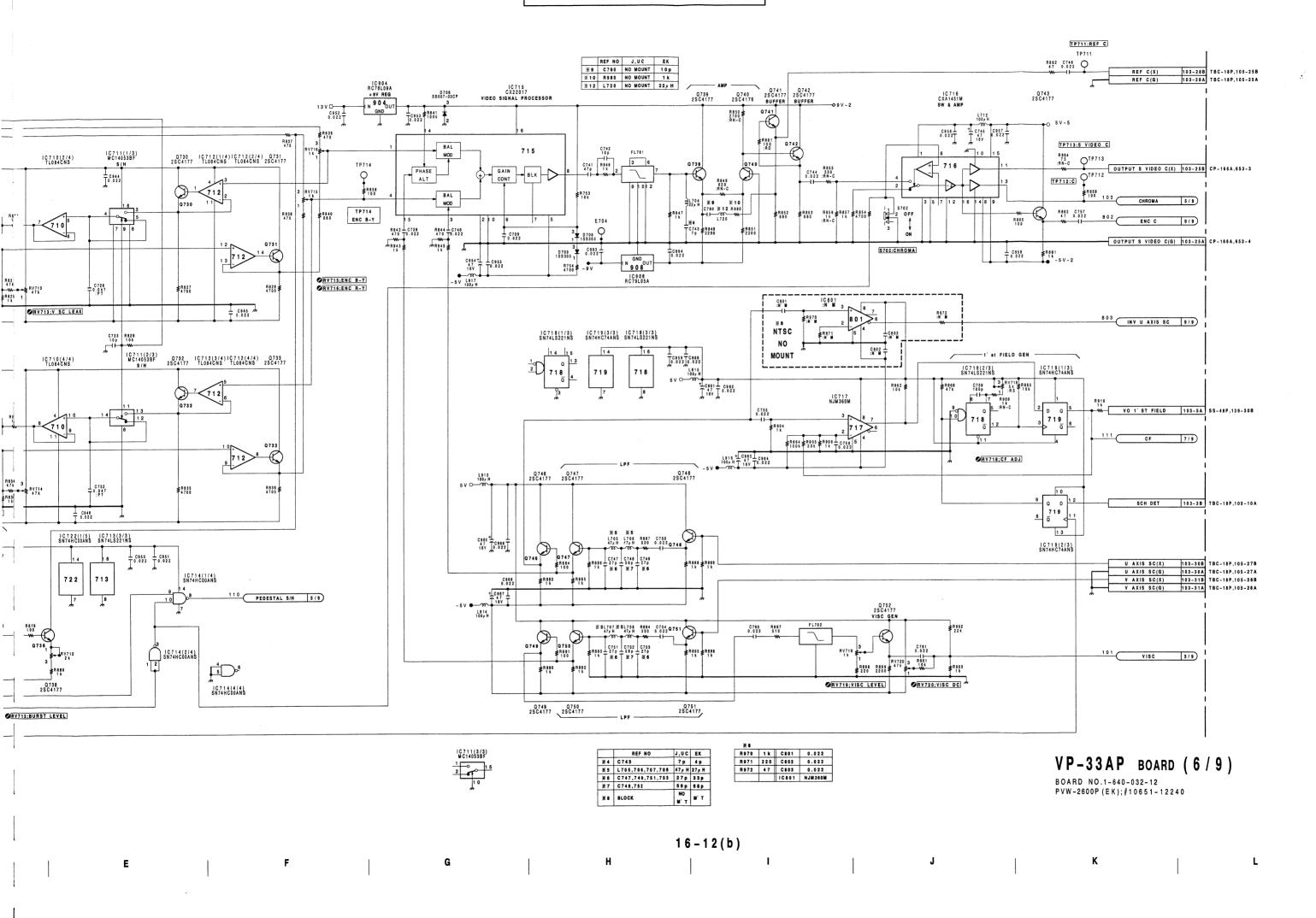


16-11(b) D | E | F | G | H

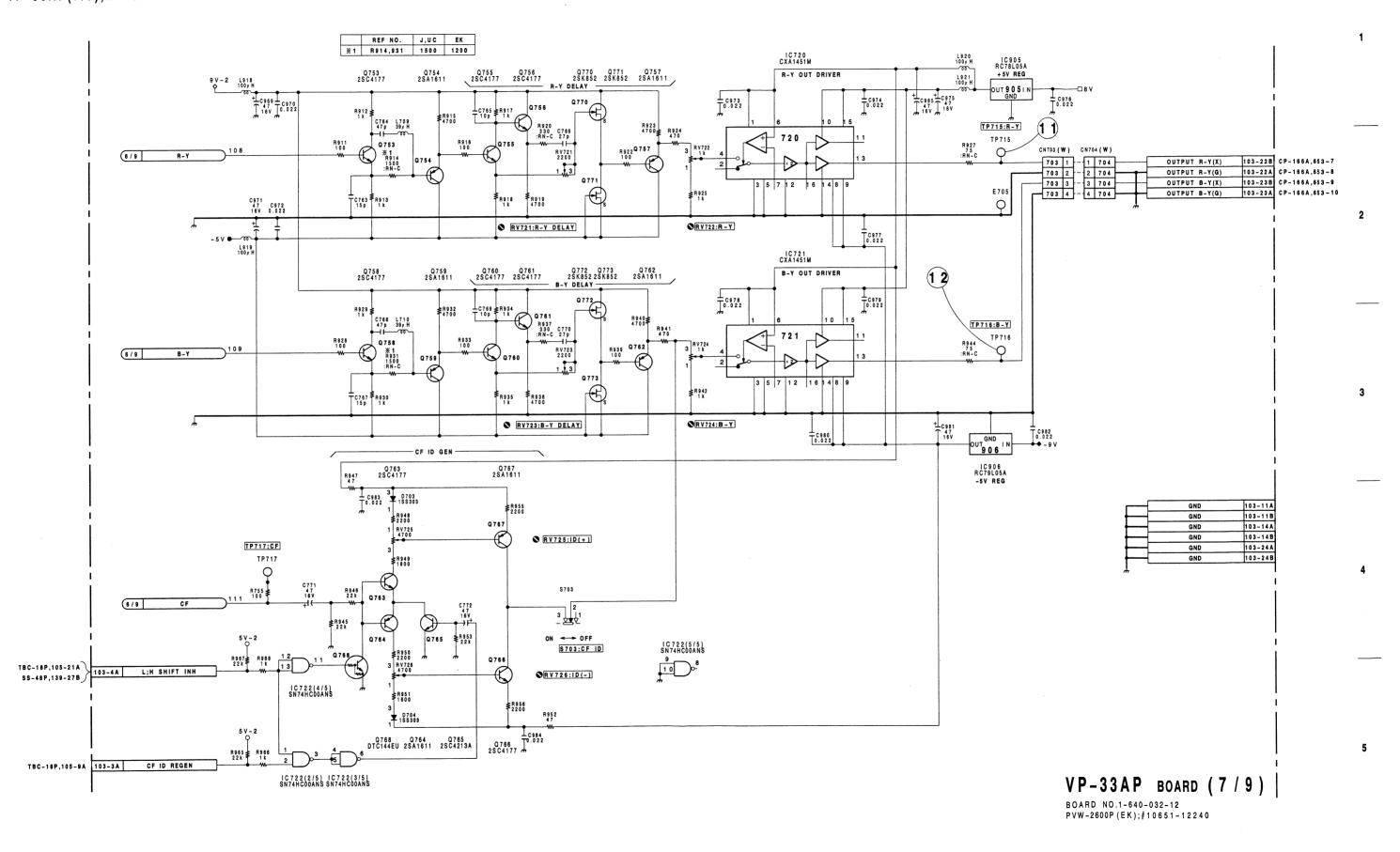
3 P(5/9) VP-33AP(5/9)

VP-33AP(6/9);ENCODER

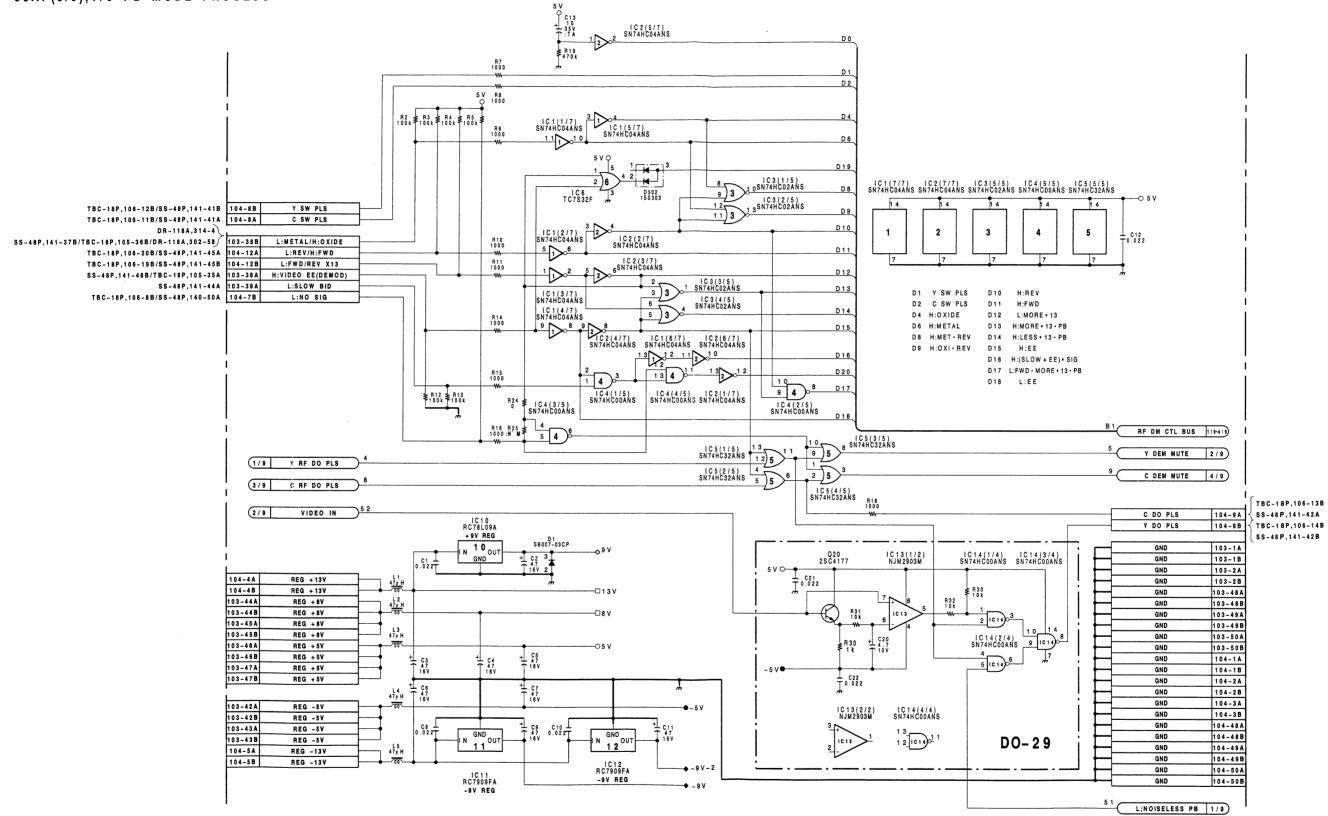




VP-33AP(7/9);R-Y/B-Y OUT DRIVER



VP-33AP(8/9);Y/C PB MODE PROCESS

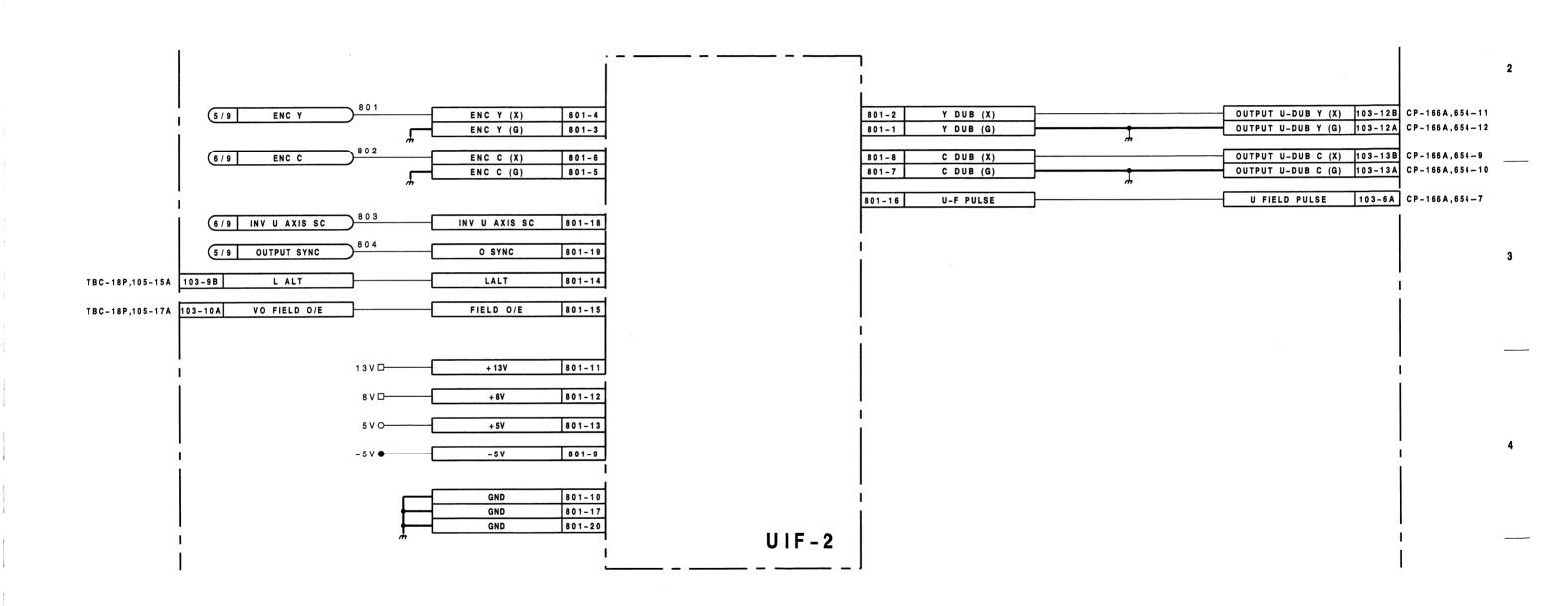


VP-33AP BOARD (8/9)

BOARD NO.1-640-032-12 PVW-2600P(EK);#10651-12240

16-14(b)
A B C D E F G H

VP-33AP(9/9);U-DUB INTERFACE

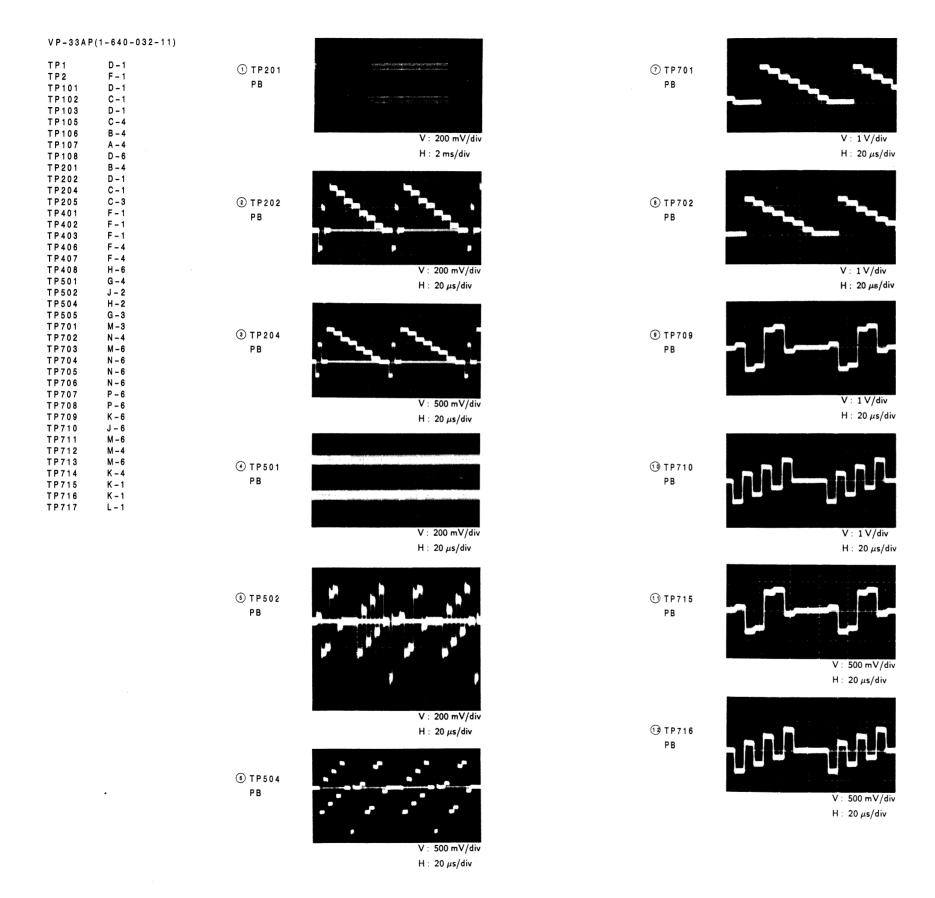


VP-33AP BOARD (9/9)

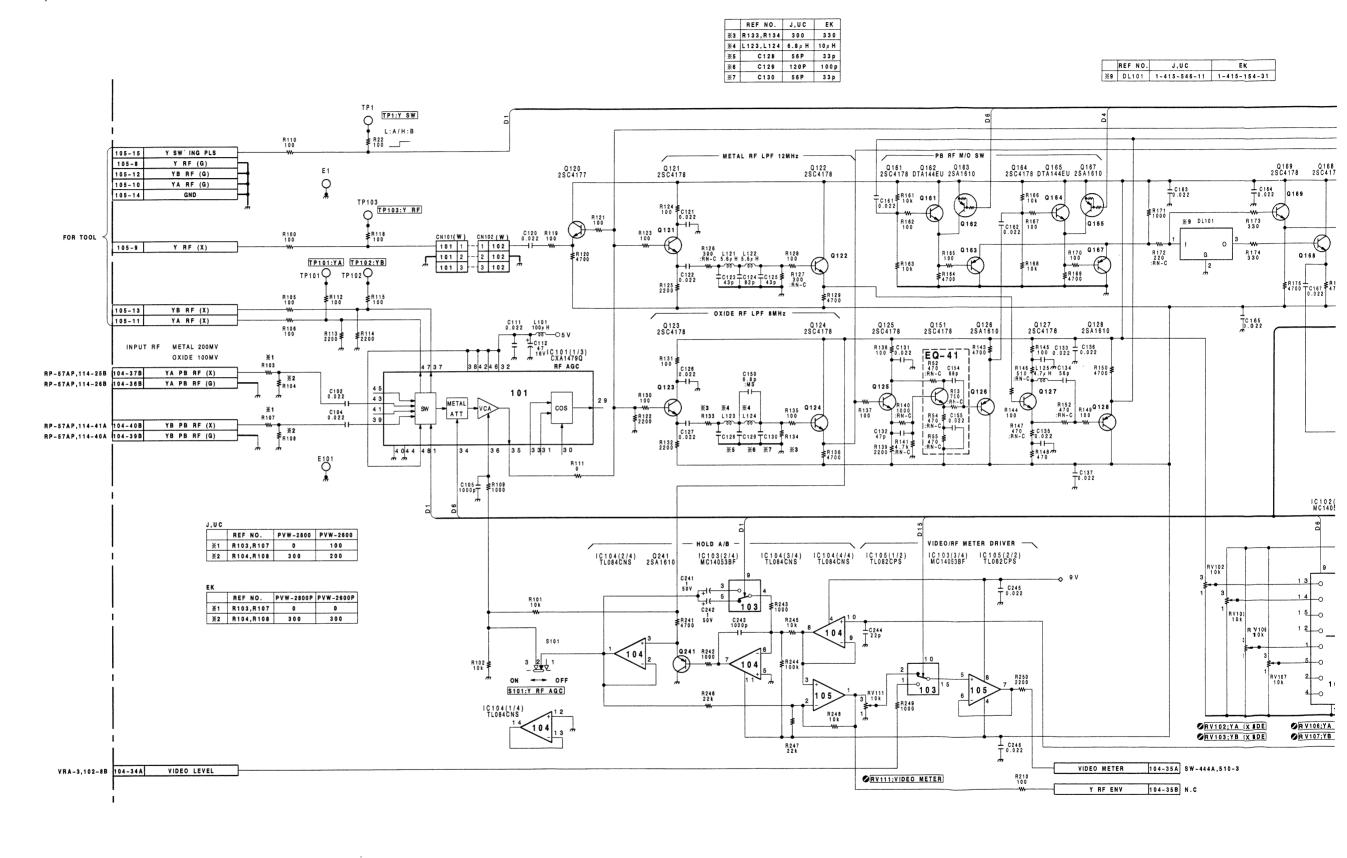
BOARD NO.1-640-032-12 PVW-2600P(EK);#10651-12240

16-15(b)

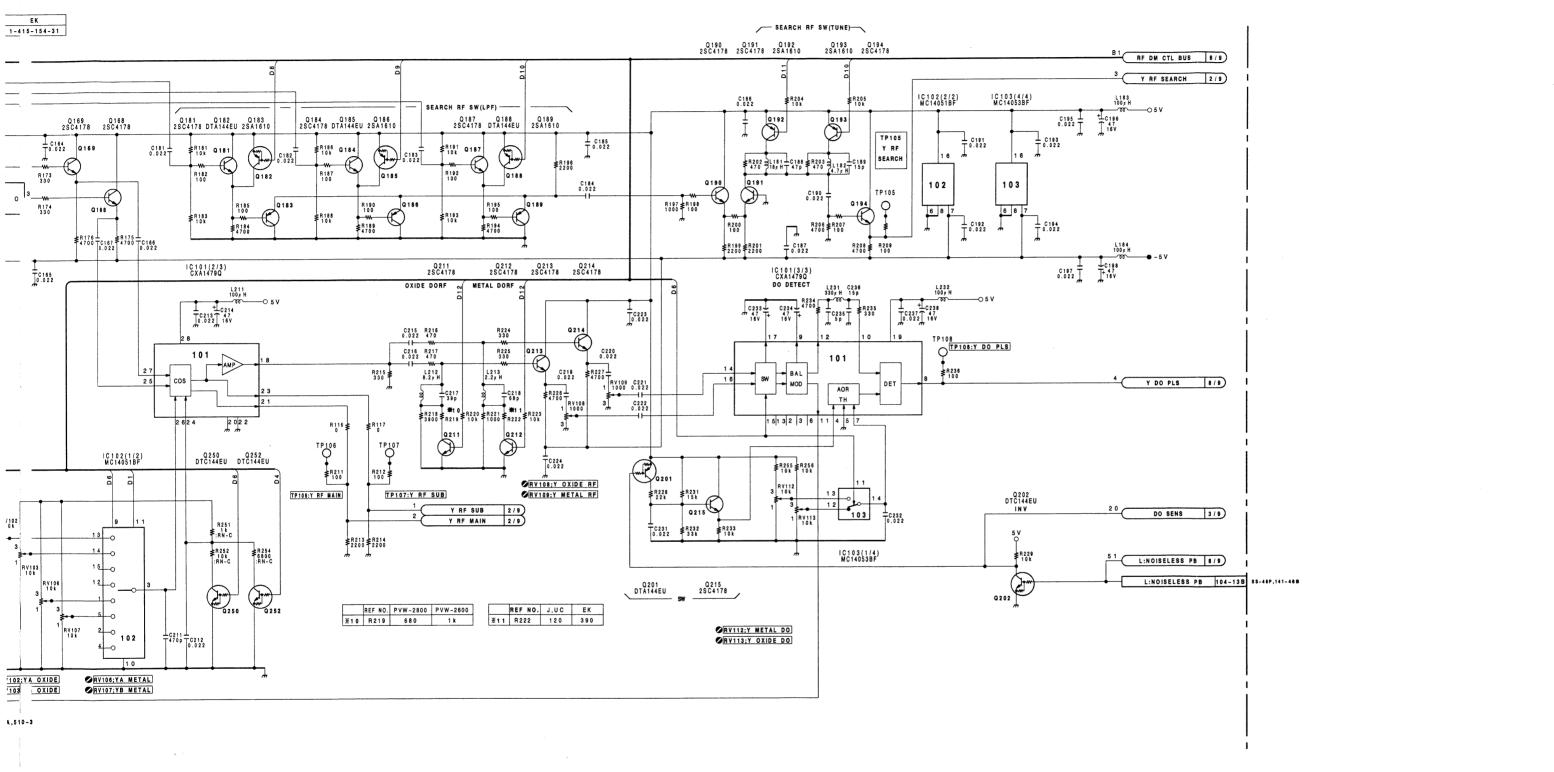
16-15(b)



VP-33AP(1/9):Y RF AGC,Y DO ENVELOPE DETECT



16-7(a)



VP-33AP BOARD (1 9)

BOARD NO.1-640-032-11 PVW-2600P (EK);#10001-10650

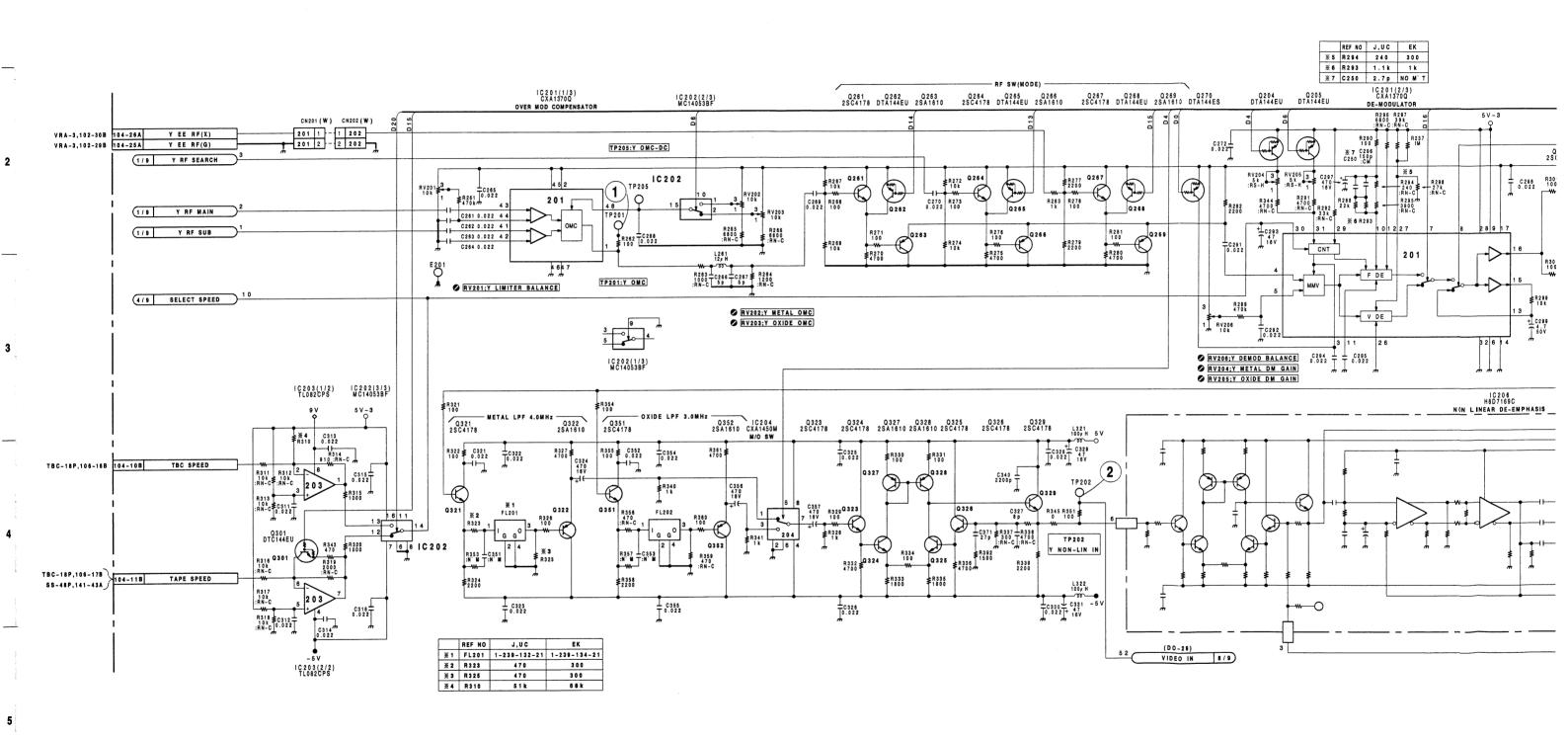
16 - 7(a)

M

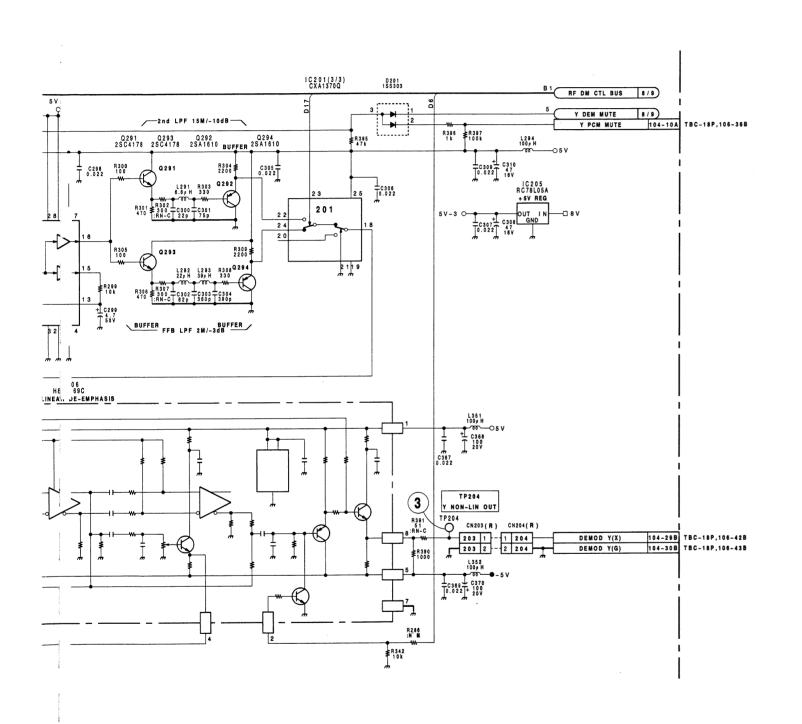
N

0

VP-33AP(2/9);DE-MODULATOR,NON LINEAR DE-EMPHASIS



16-8(a) A B C D E F G H

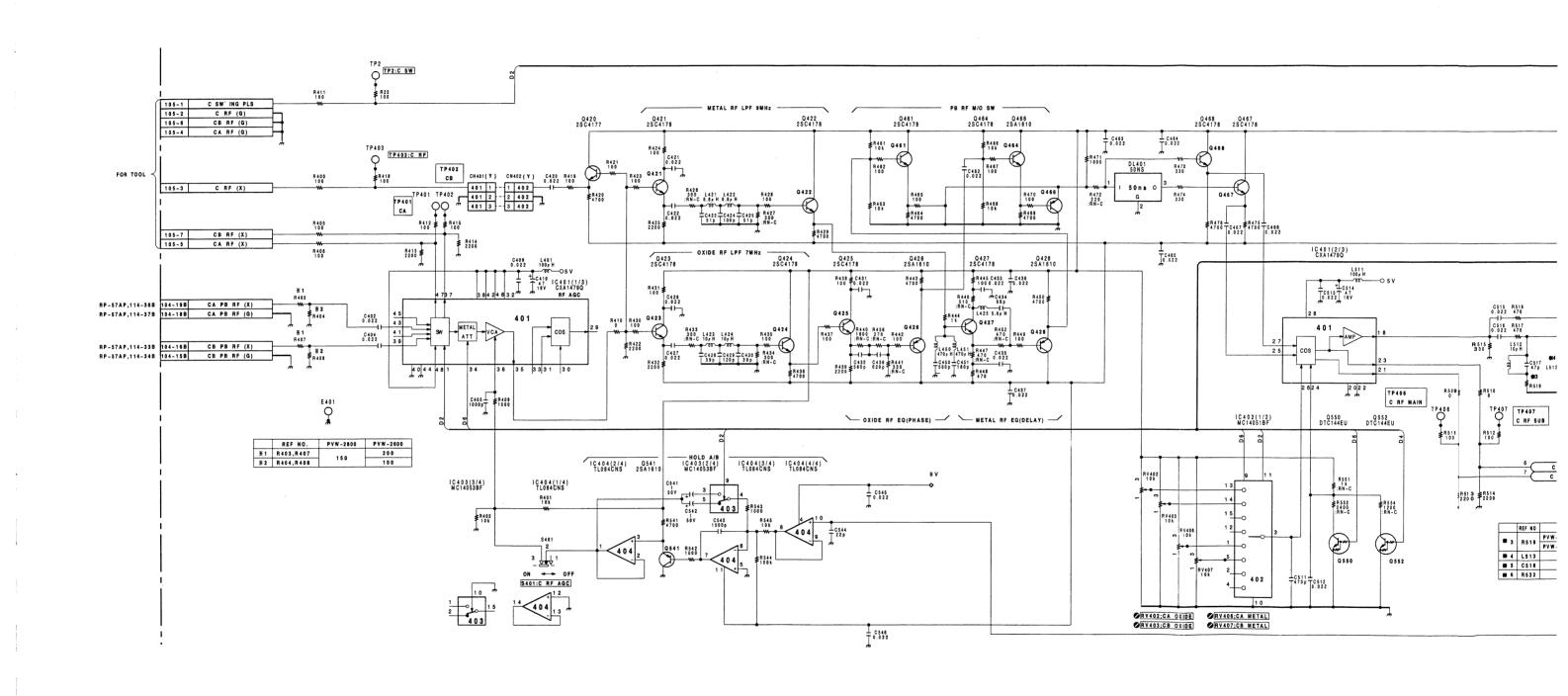


VP-33AP BOARD (2/9)

BOARD NO.1-640-032-11 PVW-2600P(EK);#10001-10650

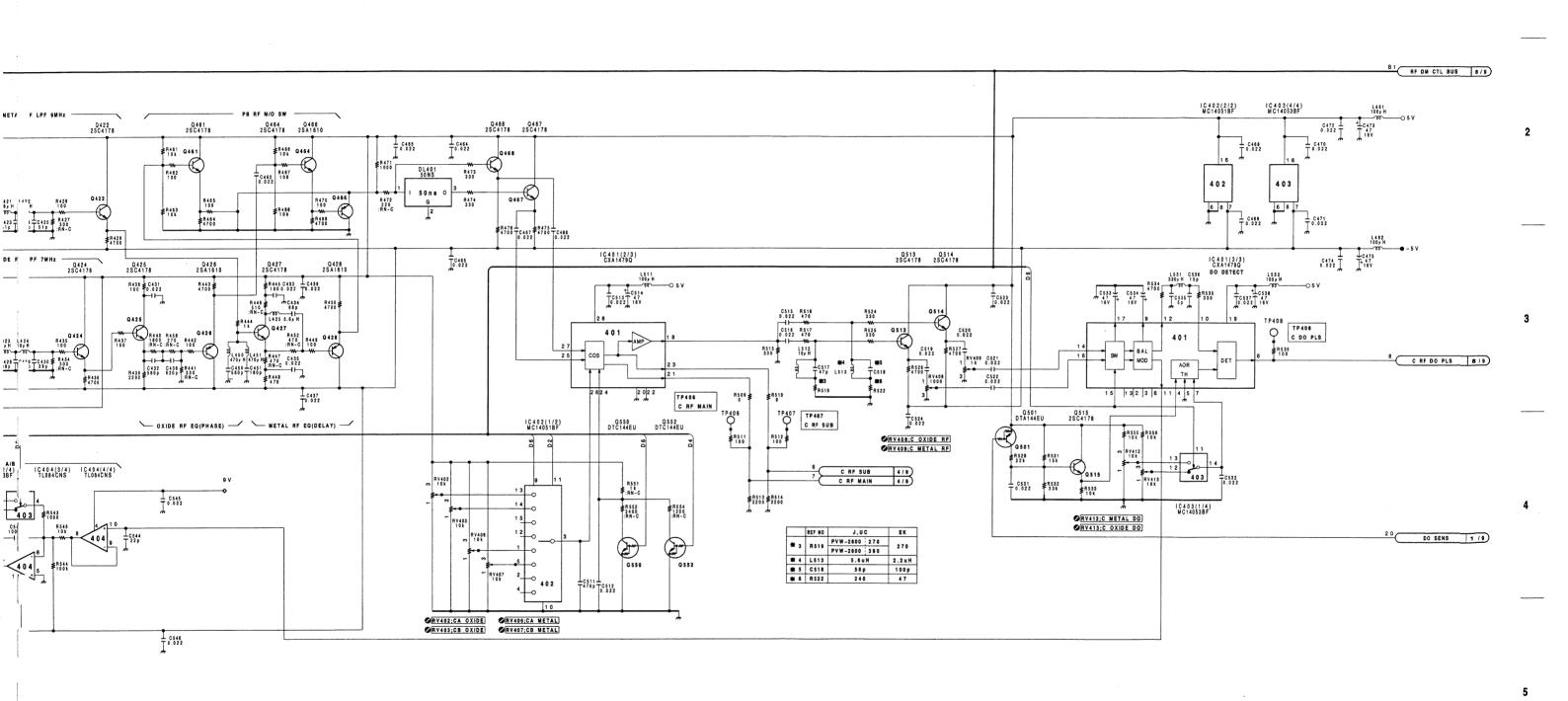
16-8(a)

VP-33AP(3/9); C PB EQ, C RF AGC, DO DETECT



16-9(a)

- 9 (a)



VP-33AP BOARD (3/9)

BOARD NO.1-640-032-11 PVW-2600P(EK);#10001-10650

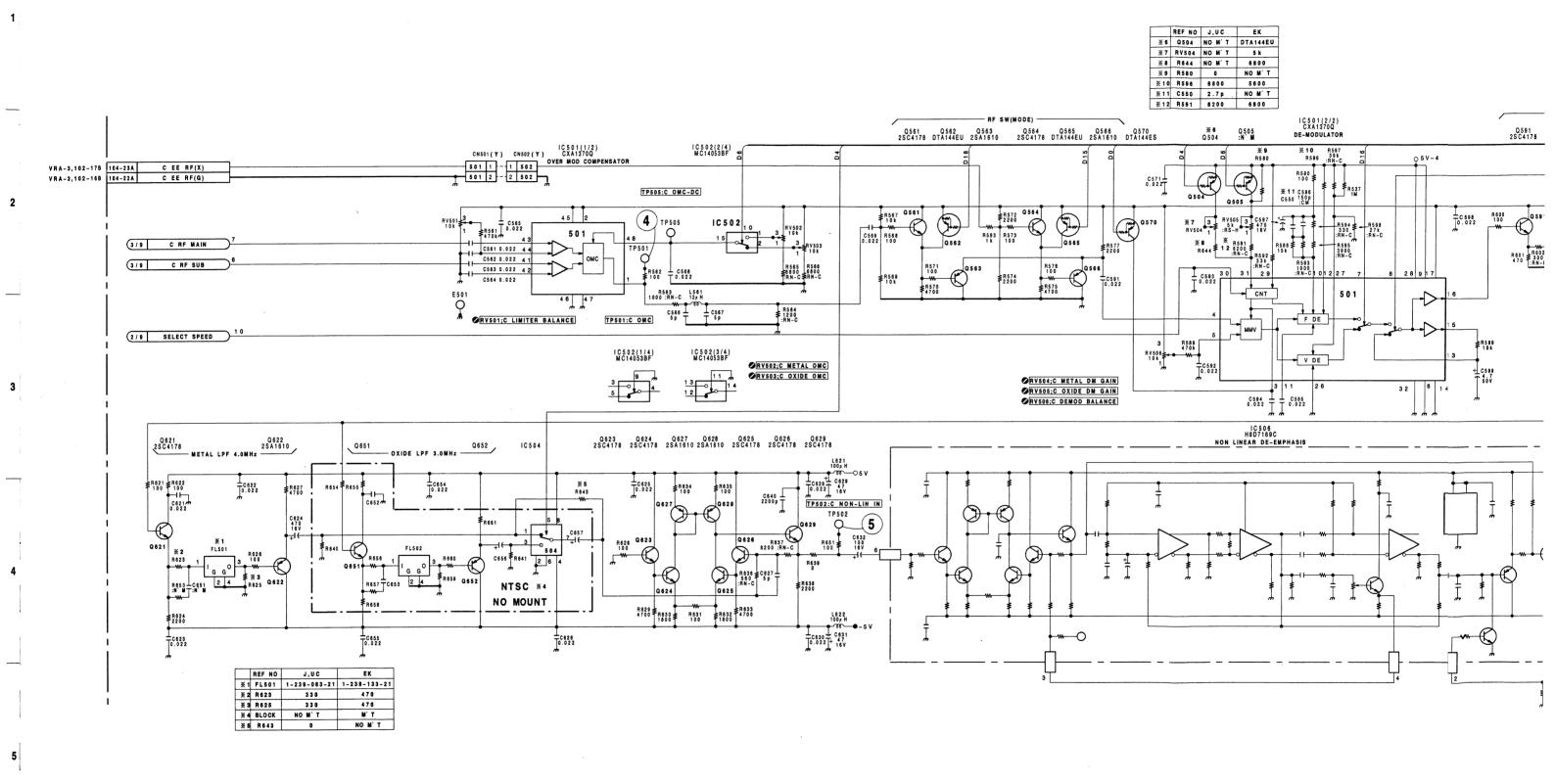
16-9 (a)

i

I

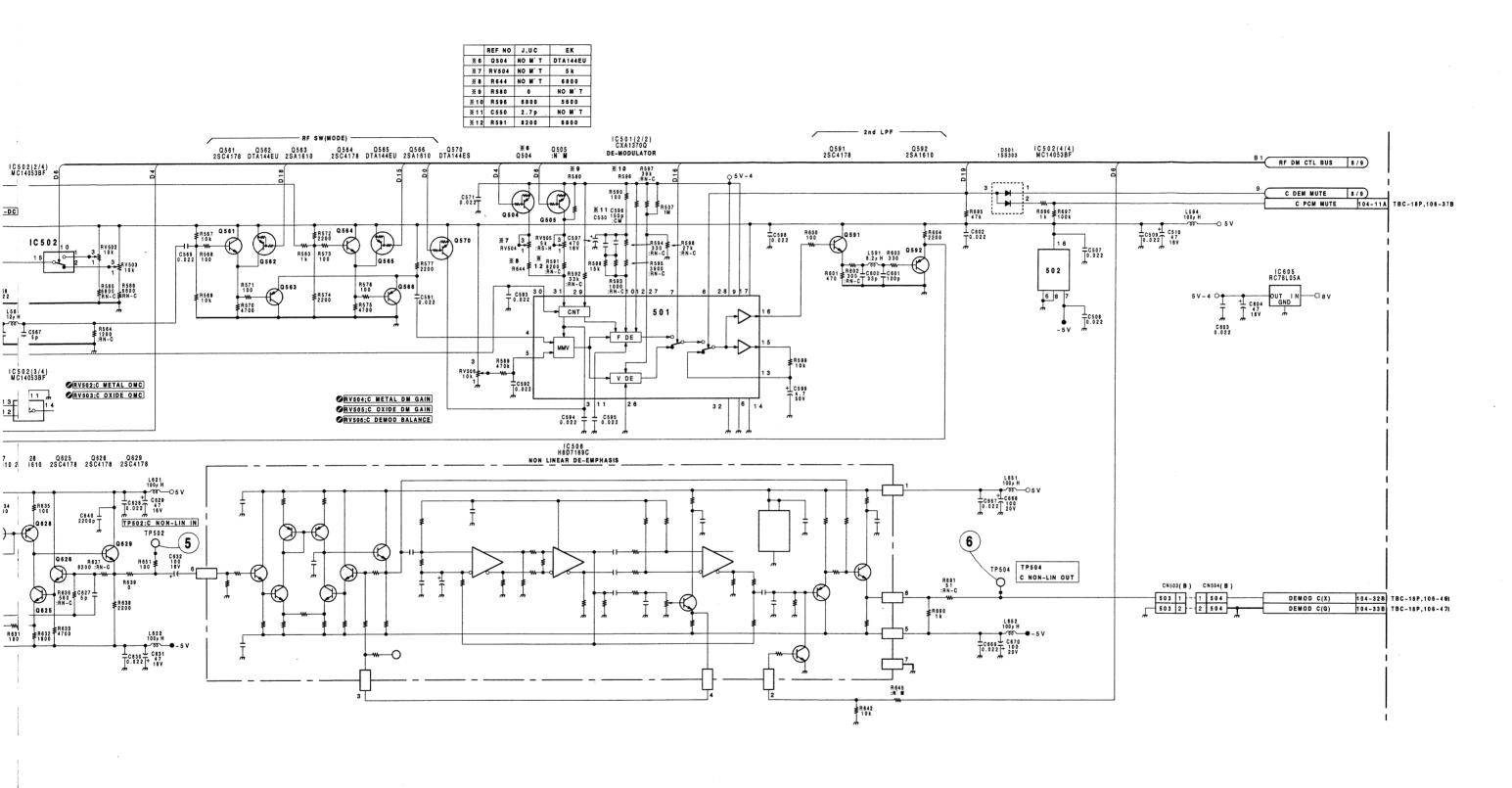
L

VP-33AP(4/9);DE-MODULATOR,NON LINEAR DE-EMPHASIS



16-10(a

16-10(a)



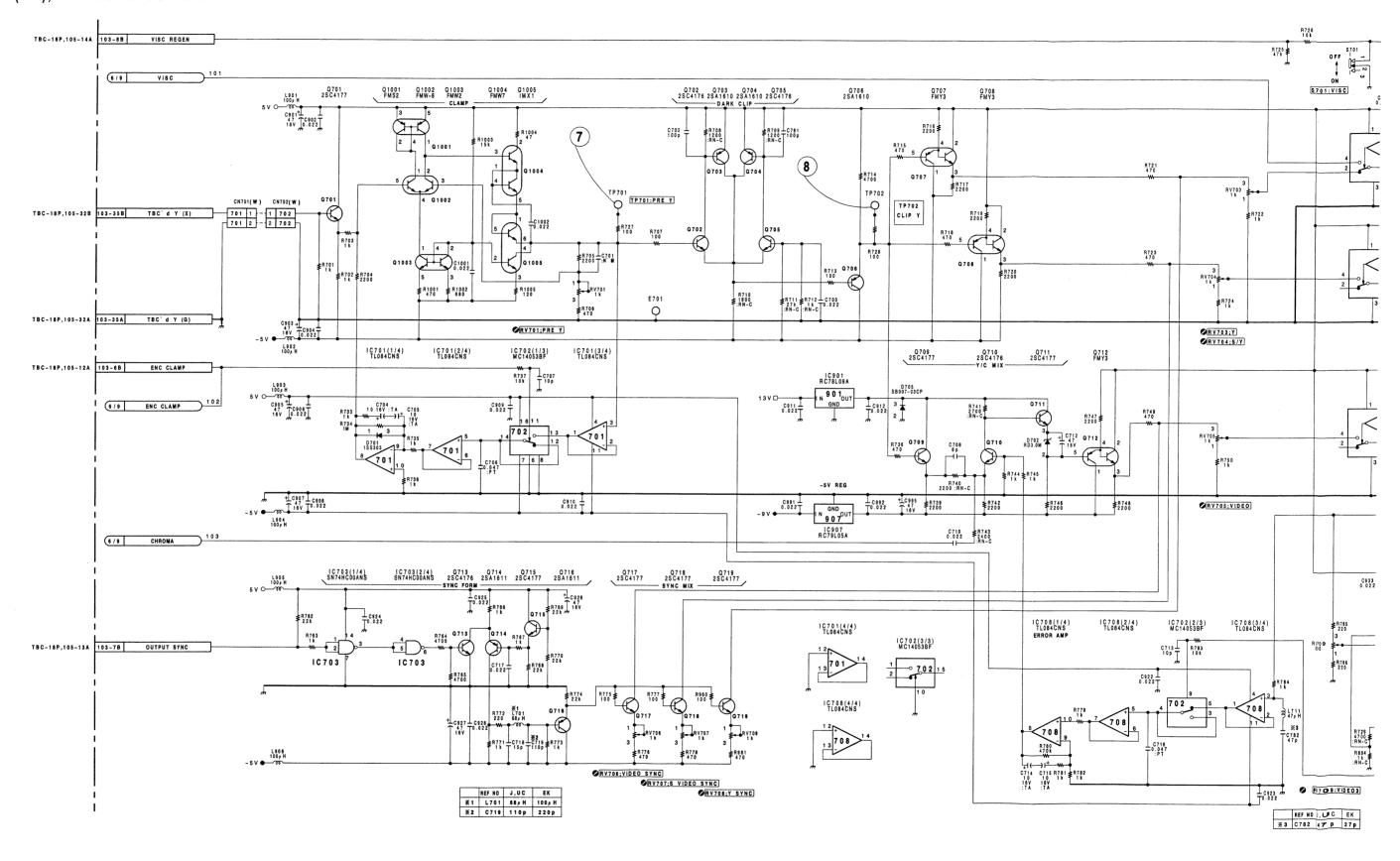
VP-33AP BOARD (4/9)

BOARD NO.1-640-032-11 PVW-2600P (EK);#10001-10650

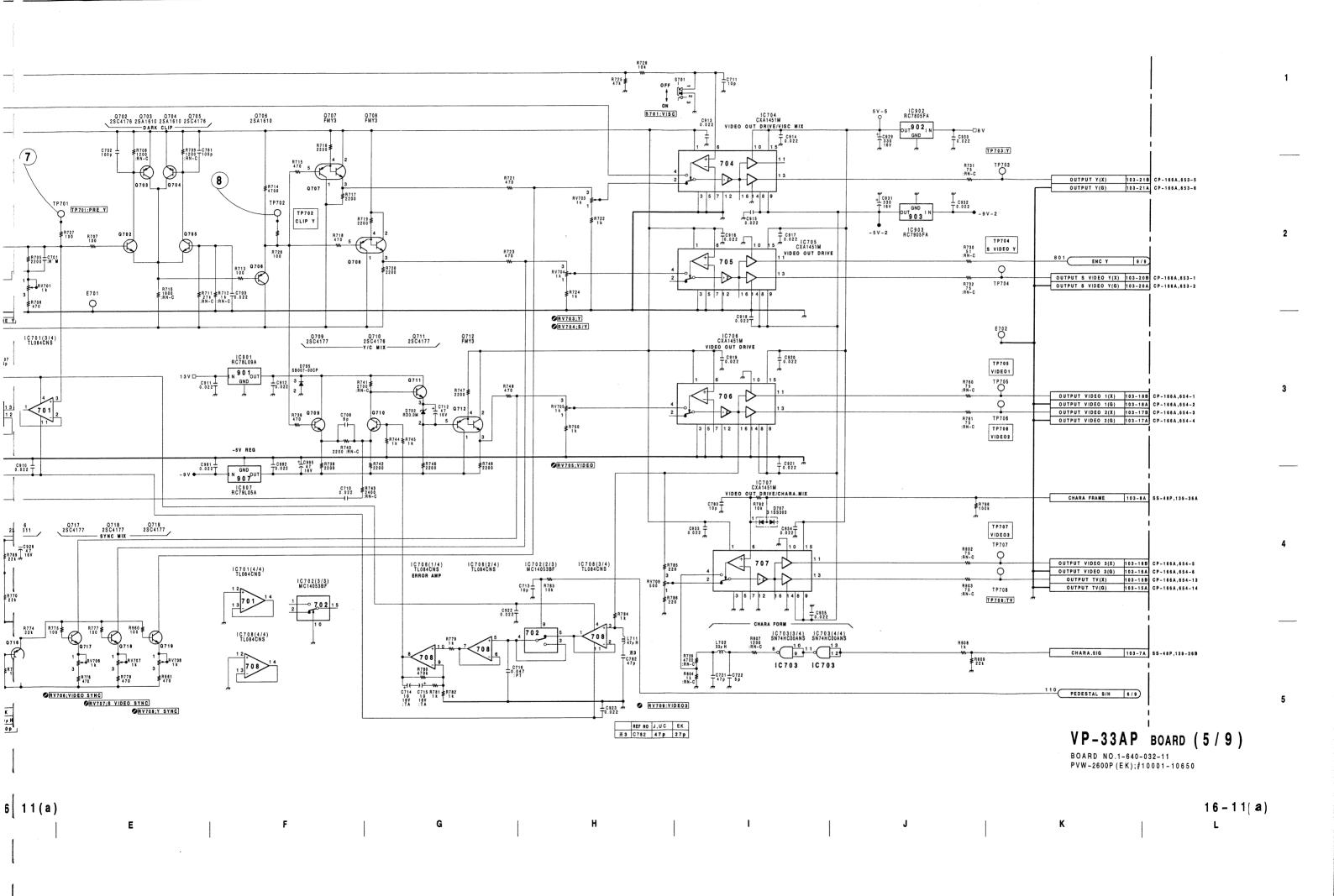
16-10(a)

Ε

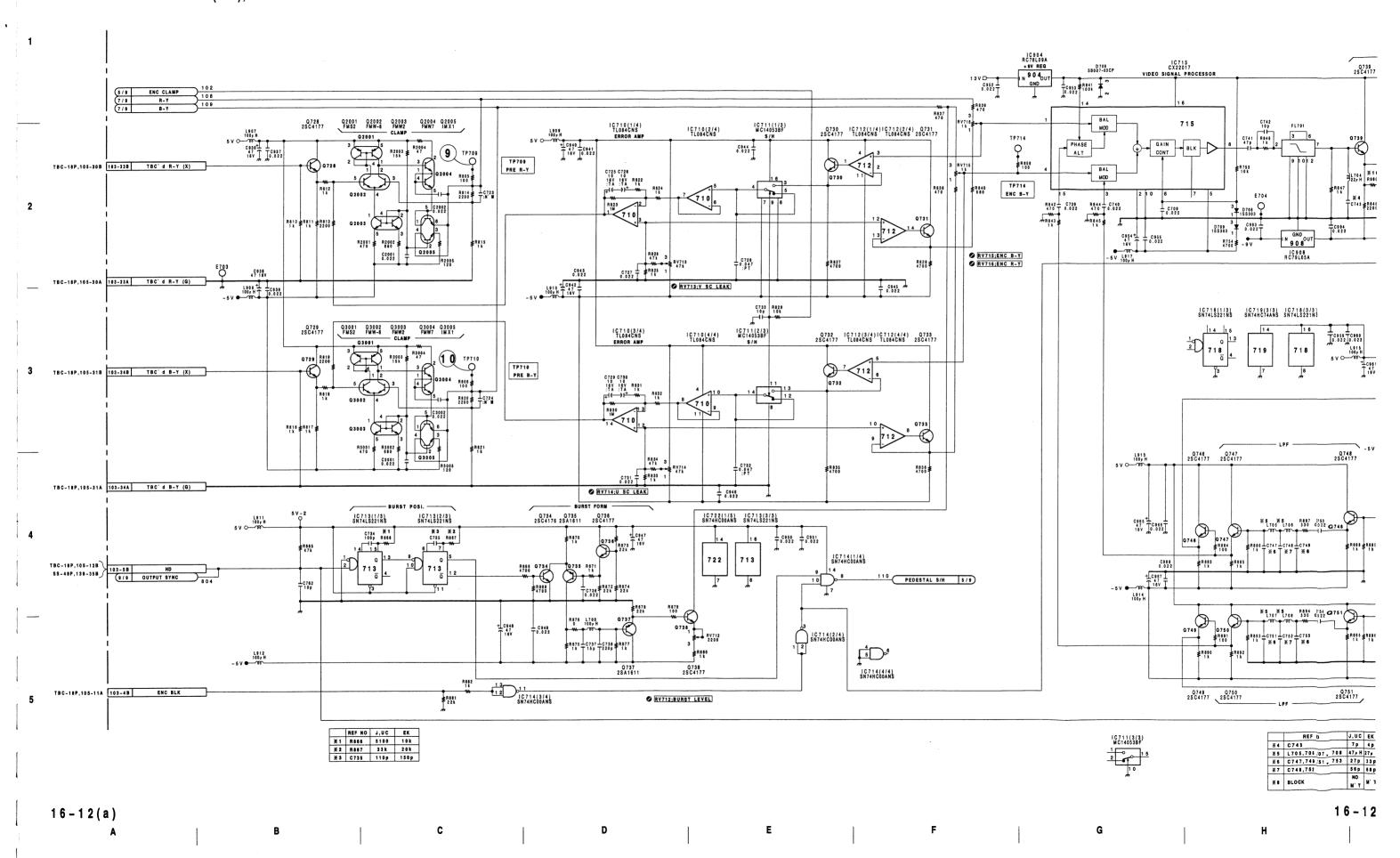
VP-33AP(5/9);COMPOSITE OUT DRIVER

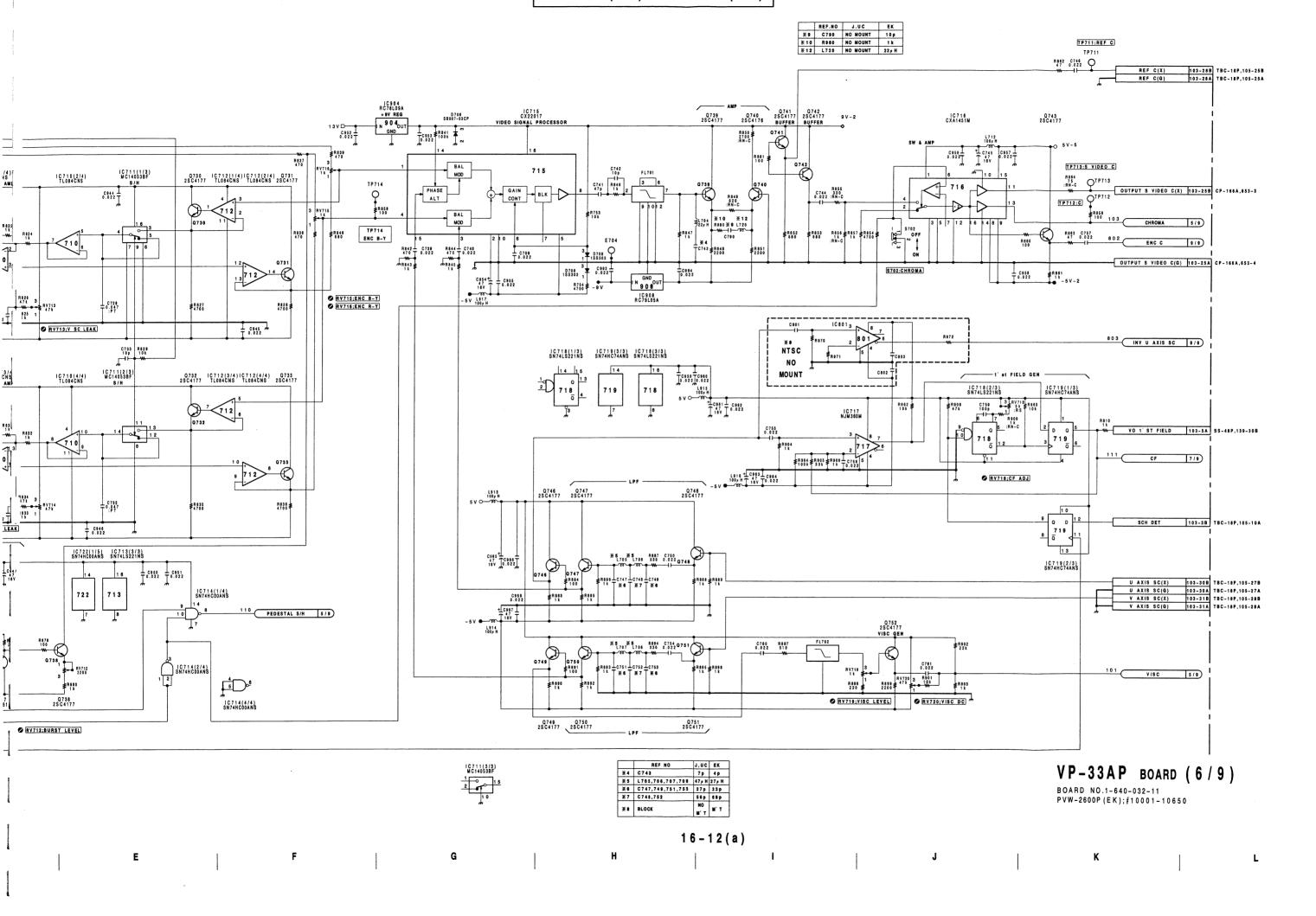


16-11(a) A B C D E F G H

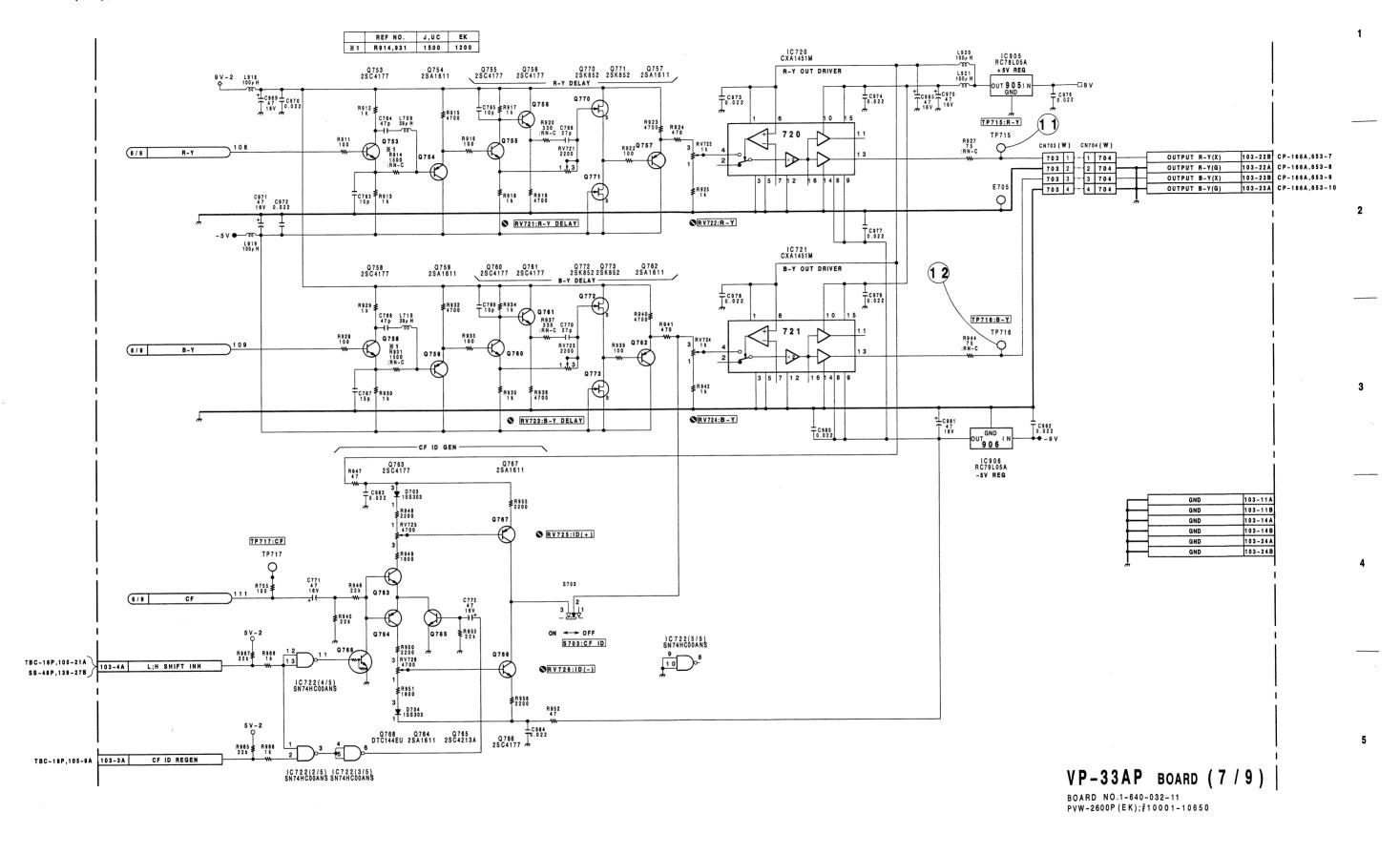


VP-33AP(6/9); ENCODER





VP-33AP(7/9);R-Y/B-Y OUT DRIVER



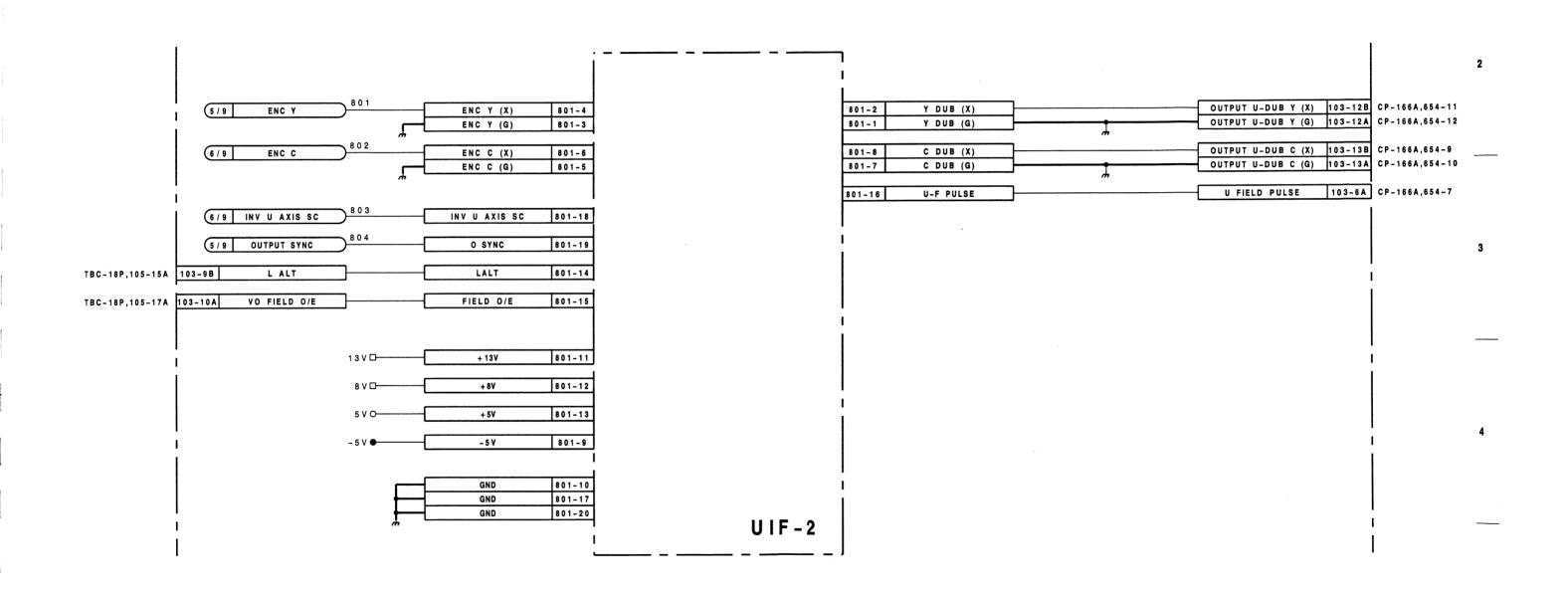
16-13(a) D F G H

16-14(a)

16-14(a)

VP-33AP(8/9) VP-33AP(8/9)

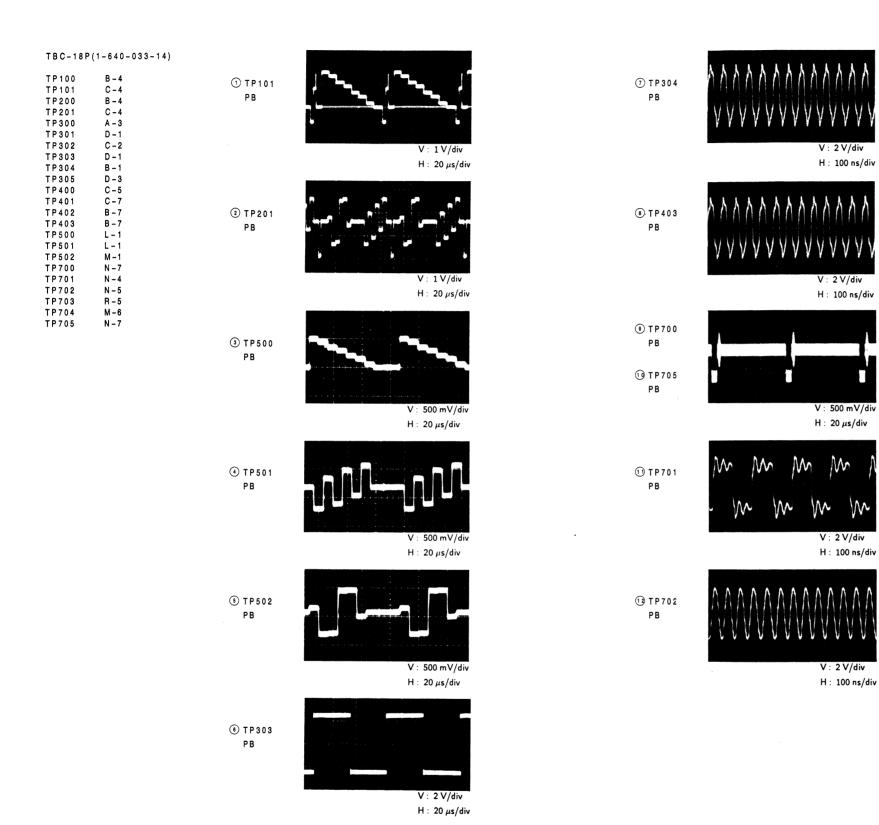
VP-33AP(9/9);U-DUB INTERFACE



VP-33AP BOARD (9/9)

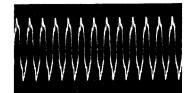
BOARD NO.1-640-032-11 PVW-2600P (EK);#10001-10650

16-15(a) 16-15(a)



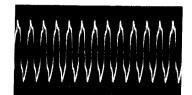
TBC-18P(14 TP100 TP101 TP200 TP201 TP300 TP301 TP302 TP303 TP304 TP305 TP400 TP401 TP402 TP403 TP500 TP501 TP502 TP701 TP702 TP705 TP705	-640-033-13} B-4 C-4 A-4 C-4 A-3 B-1 C-2 D-1 B-1 D-3 C-5 C-7 B-7 B-7 L-1 L-1 M-1 N-7 N-4 N-5 P-5 M-6 N-7	① TP101 PB	V: 1 V/div H: 20 μs/div
		② TP201 PB	V: 1 V/div H: 20 μs/div
		③ TP500 PB	V : 500 mV/div H : 20 μs/div
		◆ TP501 PB	V : 500 mV/div H : 20 μs/div
		③ TP502 PB	V: 500 mV/div H: 20 µs/div
		TP303PB	V : 2 V/div H : 20 μs/div

7 TP304 PB



V : 2 V/div H : 100 ns/div

® TP403 PB



V: 2 V/div

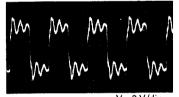
H: 100 ns/div

9 TP700 PB



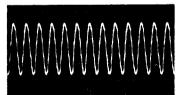
> V : 500 mV/div H : 20 μs/div

① TP701 PB



V : 2 V/div H : 100 ns/div

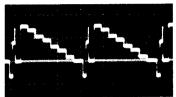
① TP702 PB



V: 2 V/div H: 100 ns/div TBC-18P(1-640-033-11,12)

TP100 TP101 TP200 TP201 TP300 TP300 TP300 TP302 TP303 TP304 TP400 TP401 TP402 TP403 TP500 TP501 TP502 TP700 TP701 TP702 TP703 TP704	B-4 C-4 B-4 C-4 A-3 D-1 C-2 D-1 B-1 C-5 C-7 B-7 L-1 M-1 N-7 N-4 N-5 M-7	
TP704 TP705	M – 6 N – 7	

① TP101 PB



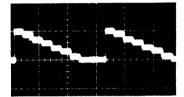
V : 1 V/div H : 20 μs/div



V: 1 V/div

H : $20~\mu s/div$

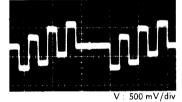
③ TP500 PB



V : 500 mV/div

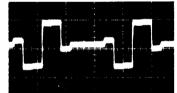
 $H: 20~\mu s/div$

4 TP501 PB



H : 20 μs/div

⑤ TP502 PB



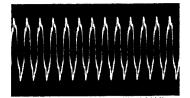
V : 500 mV/div

 $H: 20~\mu s/div$

⑤ TP303 PB

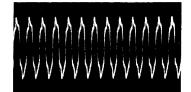


V : 2 V/div H : 20 μs/div 7 TP304 PB



V : 2 V/div H : 100 ns/div

® TP403 PB



V: 2 V/div H: 100 ns/div

9 TP700 PB



① TP705 PB

> V : 500 mV/div H : 20 μs/div

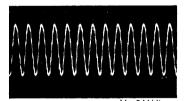
① TP701 PB



V: 2 V/div

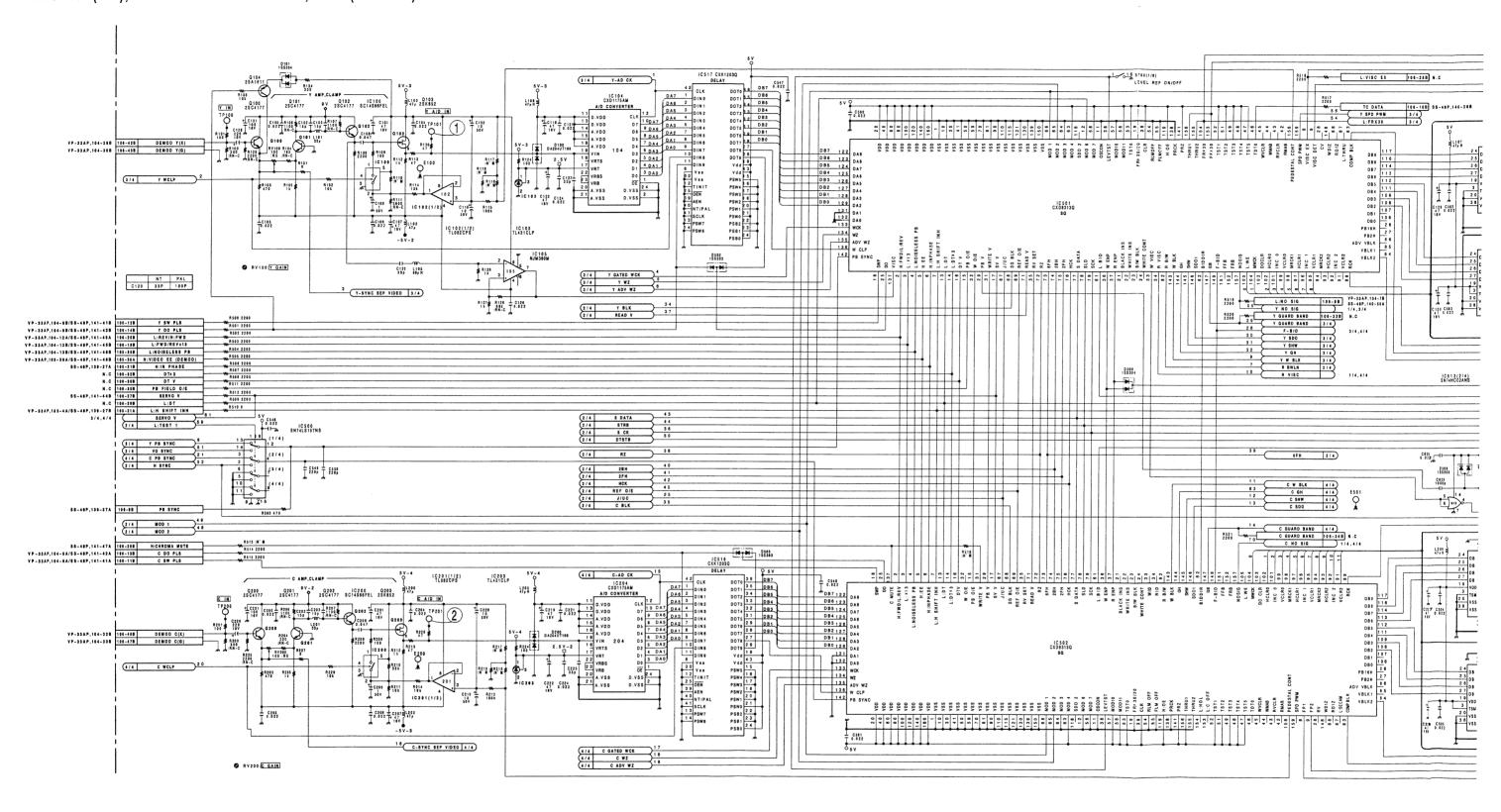
H : 100 ns/div

① TP702 PB



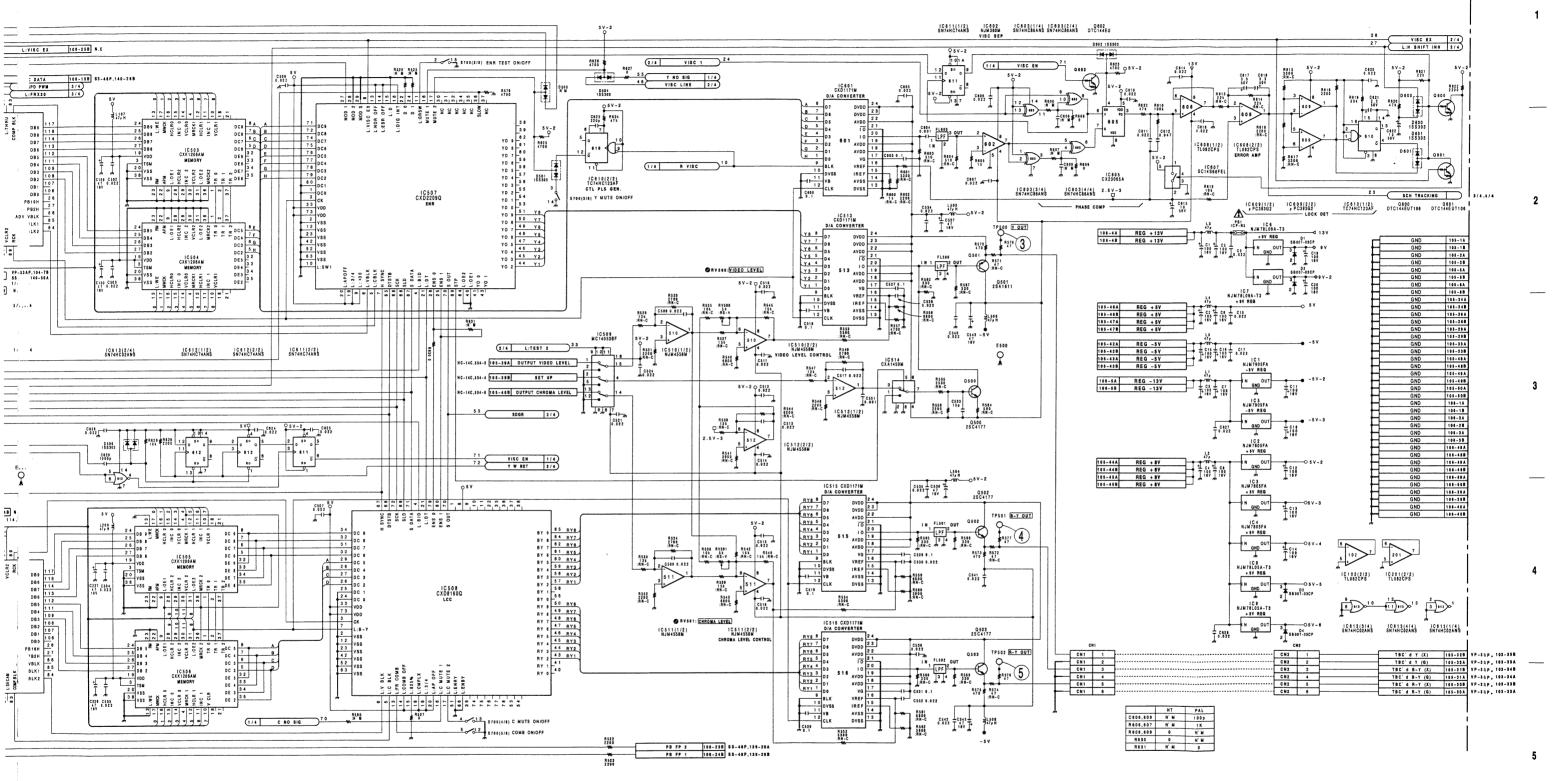
V: 2 V/div H: 100 ns/div

TBC-18P(1/4); TIME BASE CORRECTOR, CTDM(EXPAND)



16-17(c) A B C D E F G H

The A -marked components are critical to Replace only with the same components as specified.



TBC-18P BOARD (1/4)

BOARD NO.1-640-033-14 PVW-2600P (EK);#14586-PVW-2600P (UC);#10011-

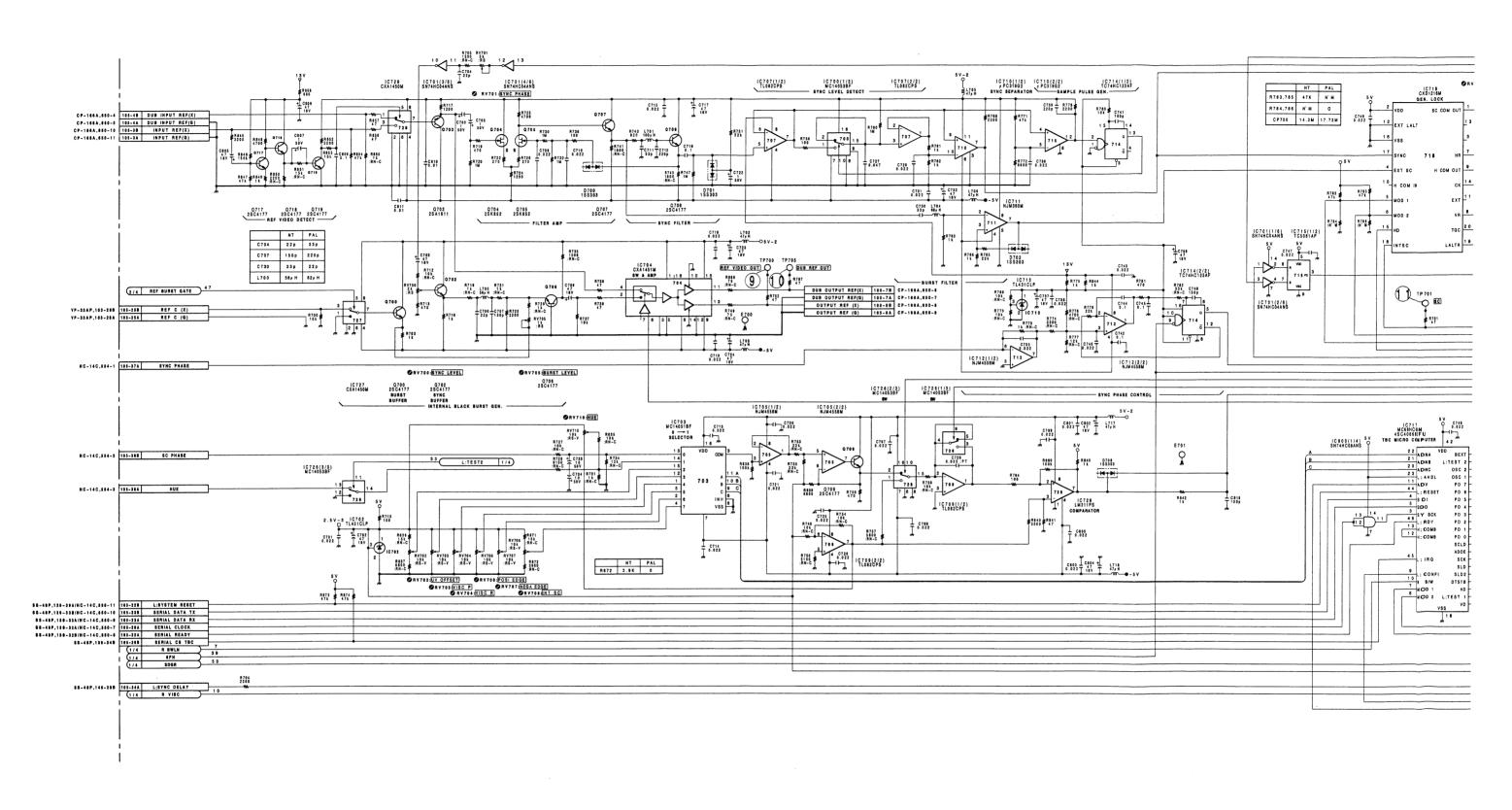
16-17(c)

0

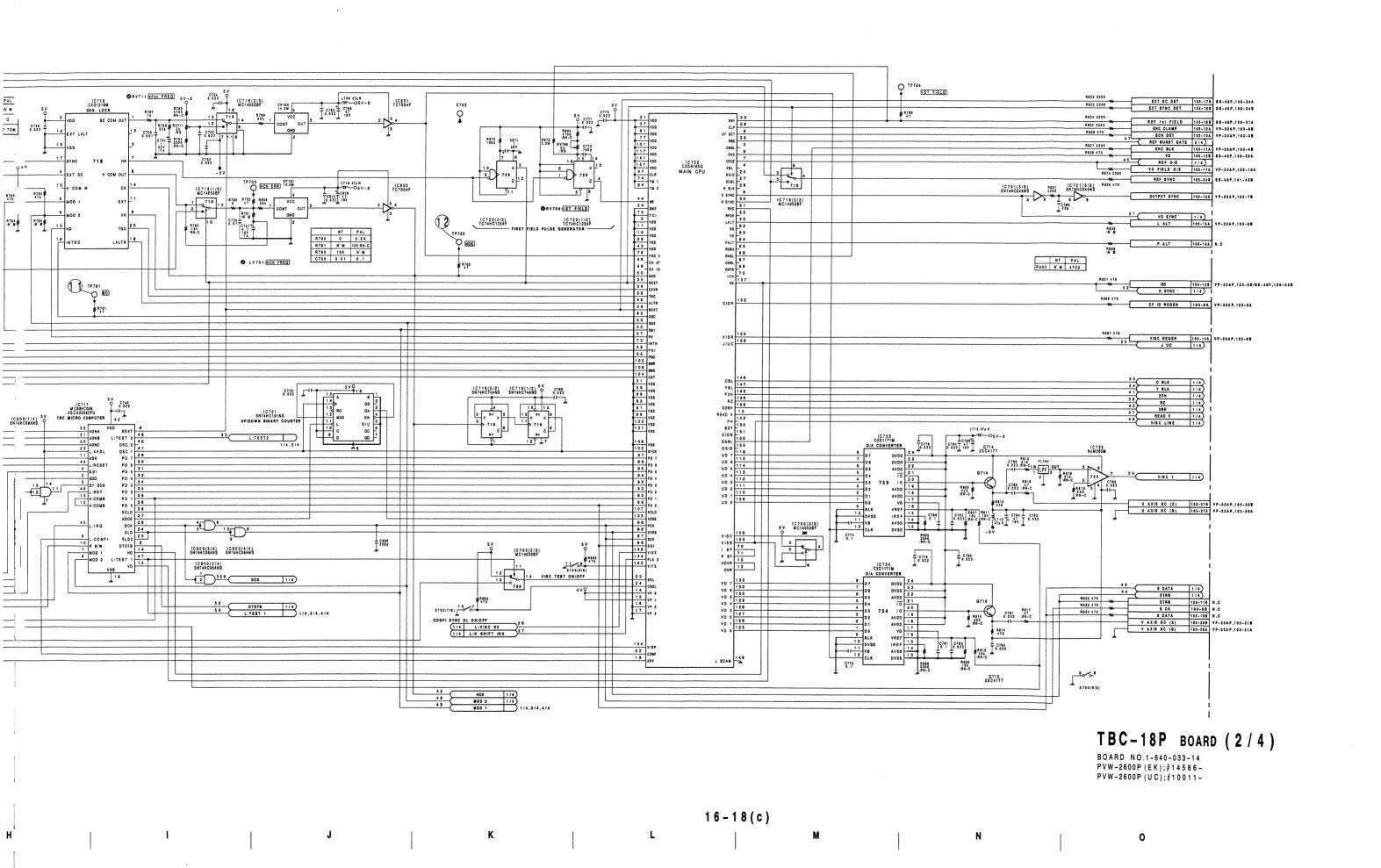
TBC-18P(2/4); TIME BASE CORRECTOR

1

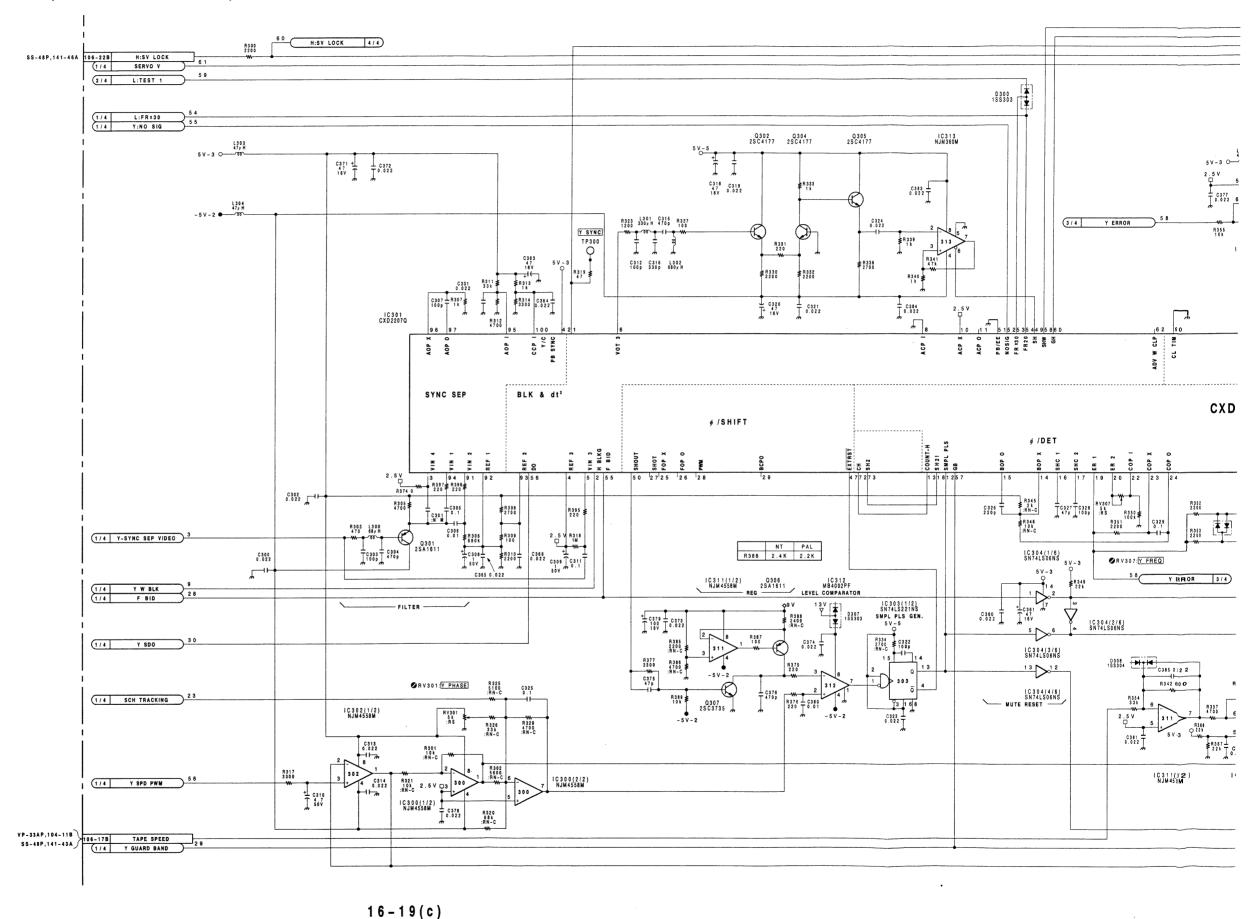
4

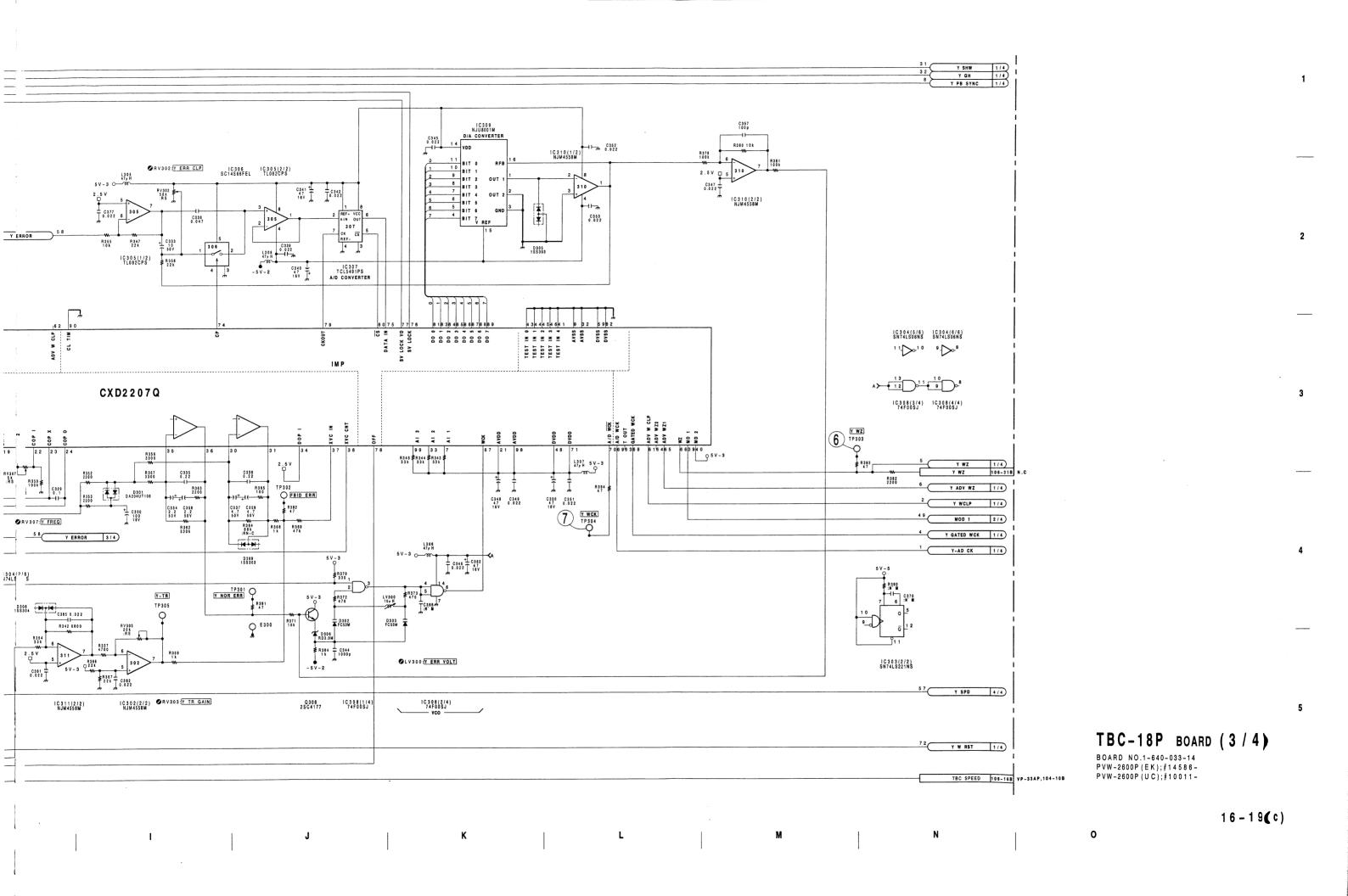


16-18(c) A B C D E F G H



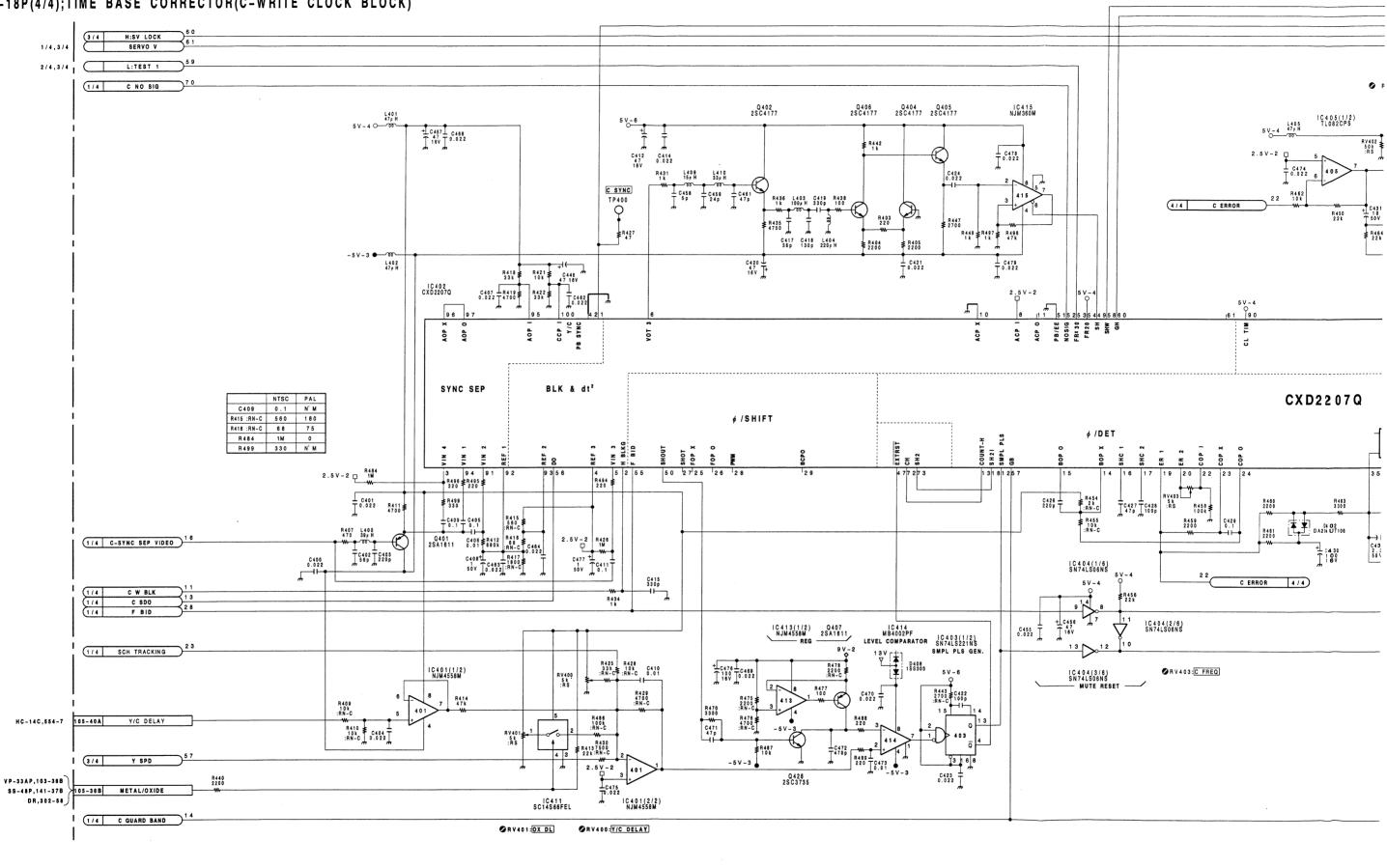
TBC-18P(3/4); TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)

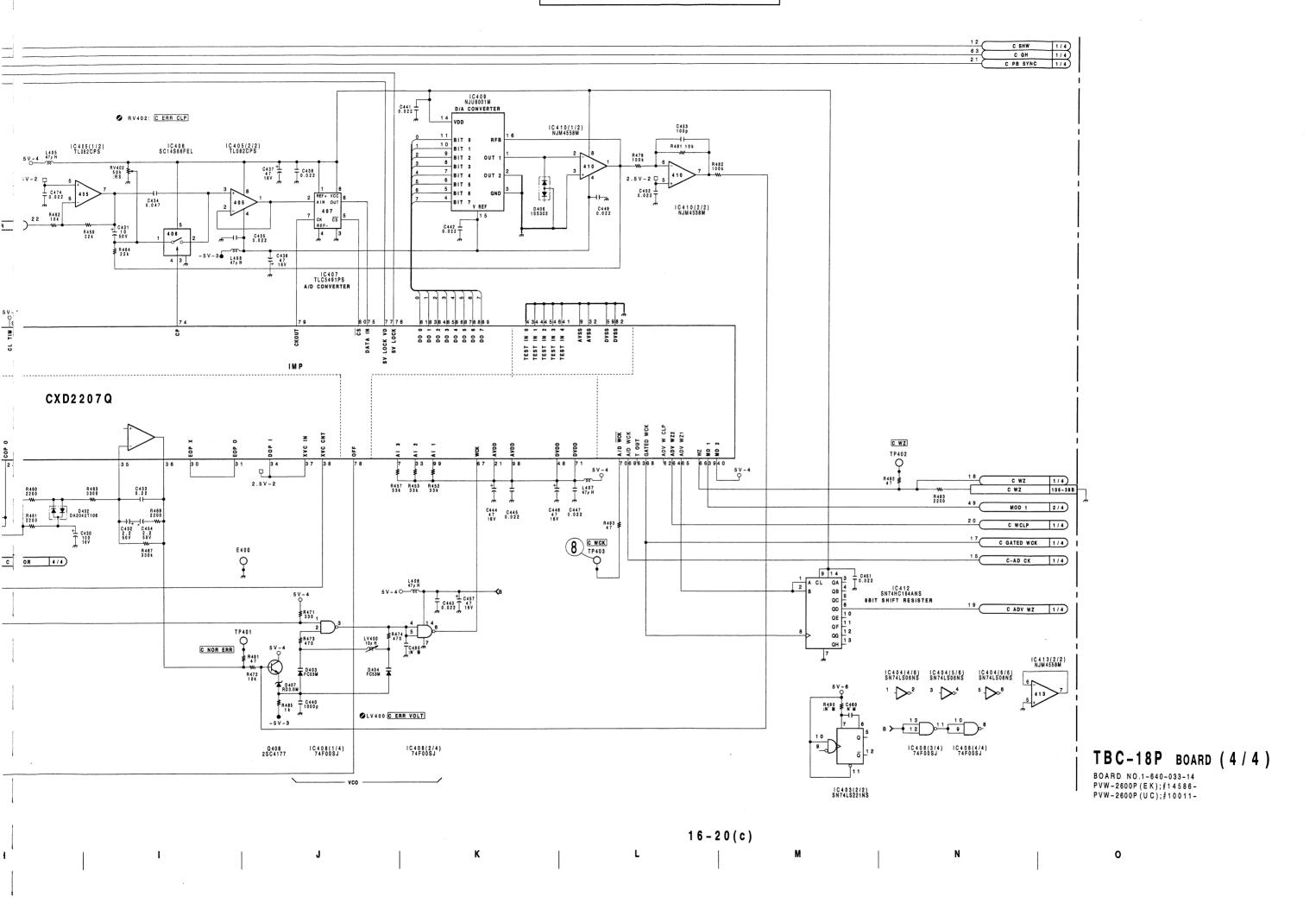




16-20(c)

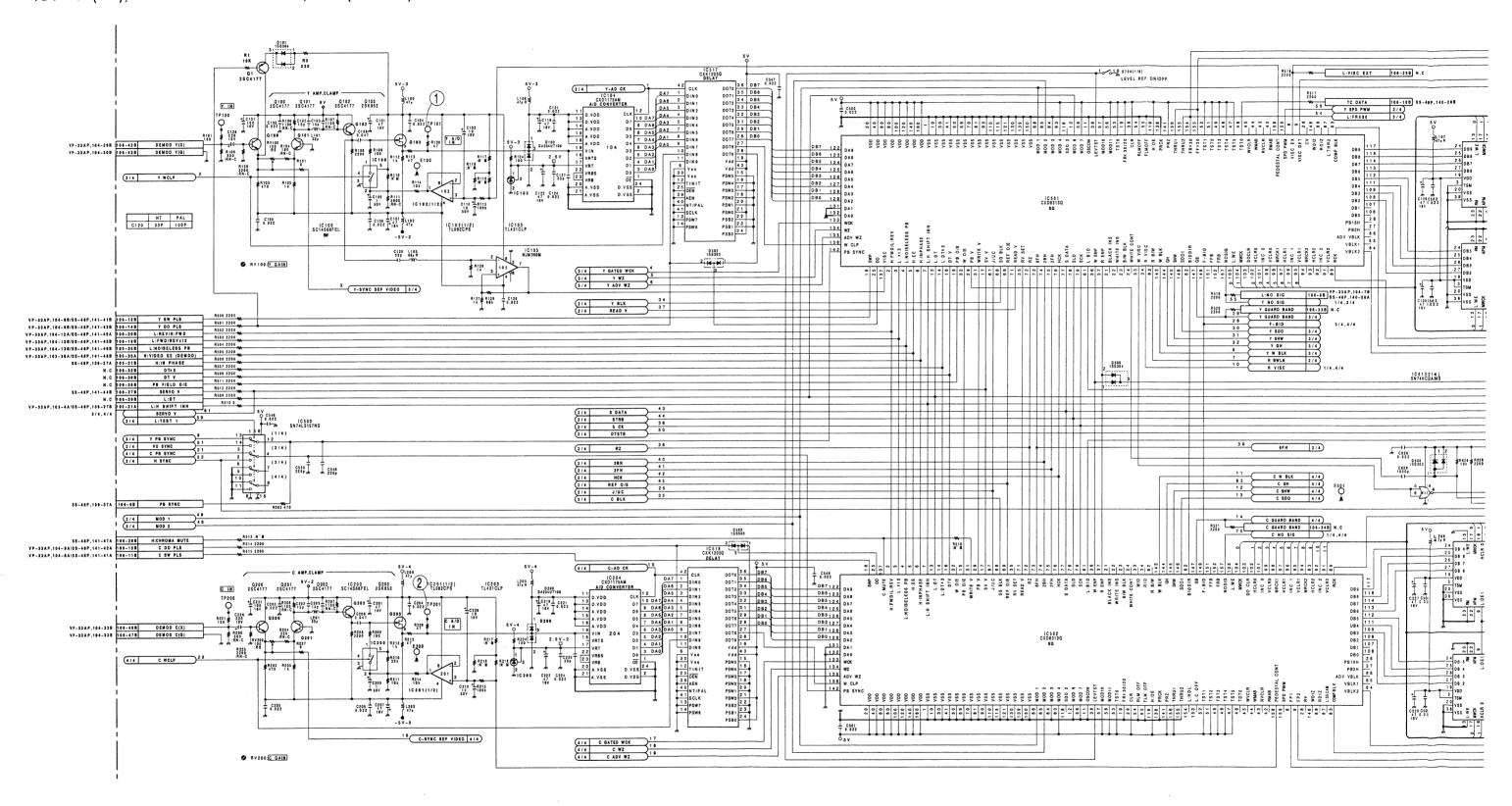
TBC-18P(4/4); TIME BASE CORRECTOR(C-WRITE CLOCK BLOCK)



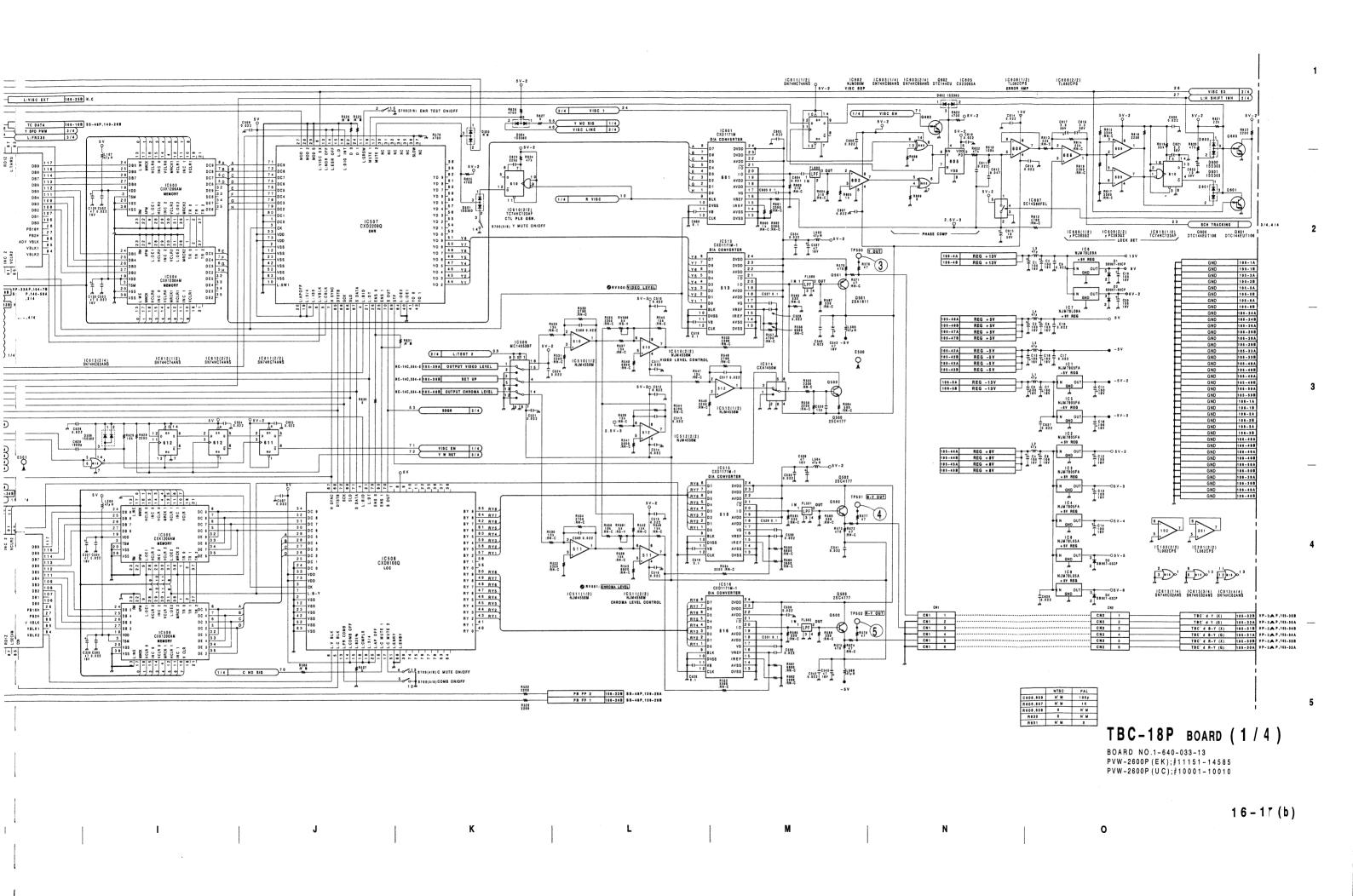


Serial No.(EK);11151 to 14585 Serial No.(UC);10001 to 10010

TBC-18P(1/4):TIME BASE CORRECTOR, CTDM(EXPAND)

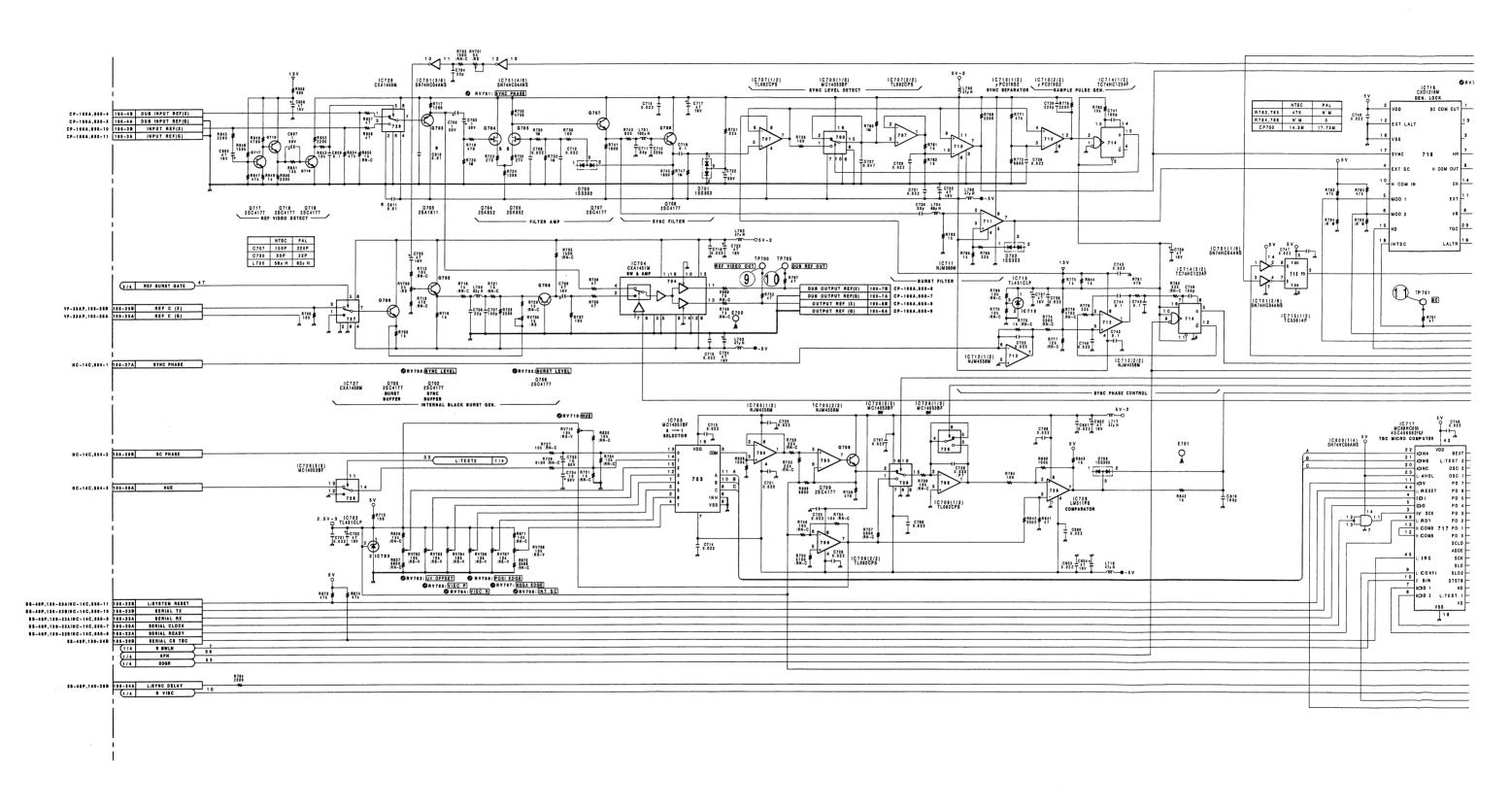


16-17(b)
A B C D E F G H

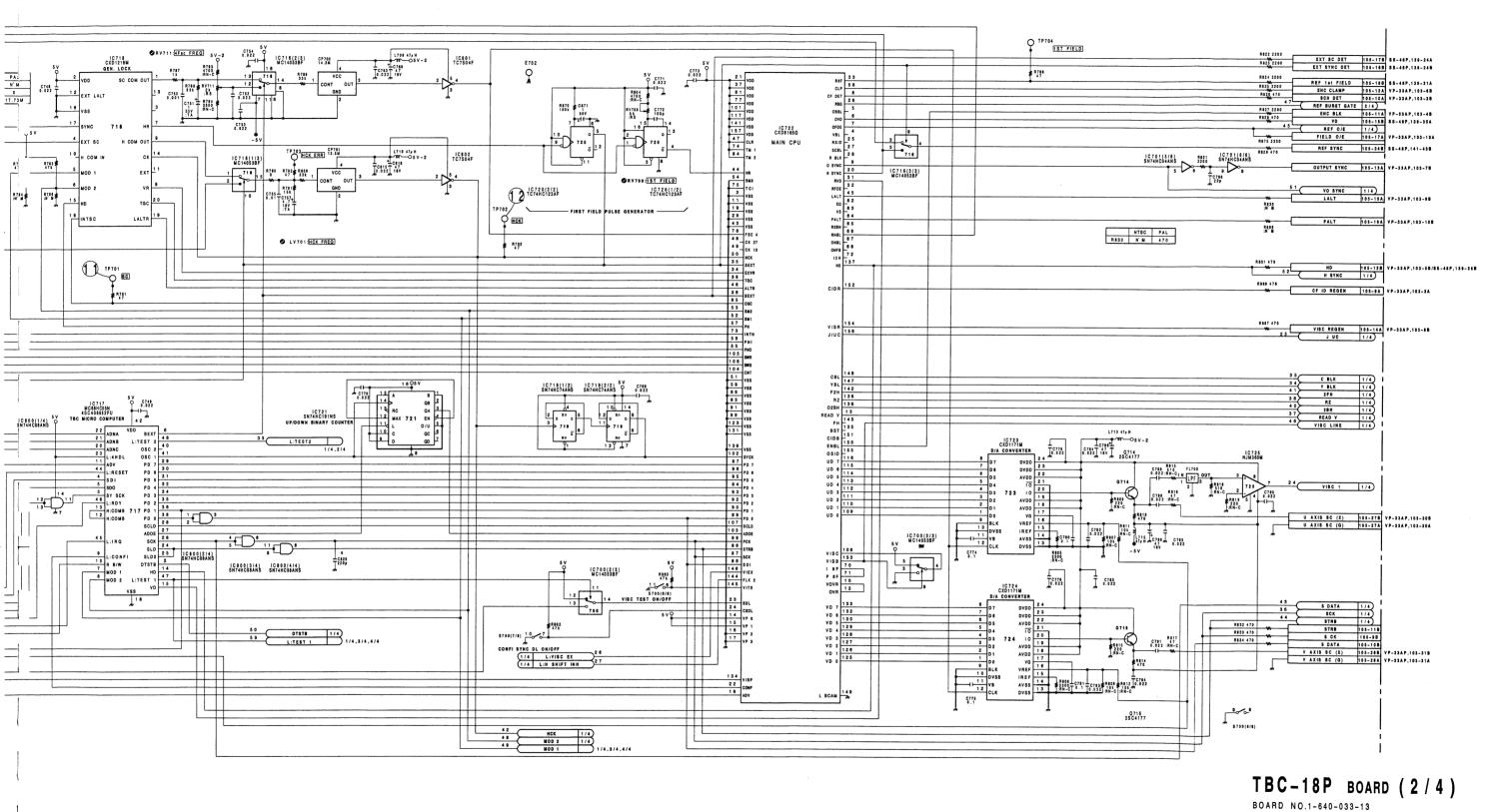


Serial No.(EK);11151 to 14585 Serial No.(UC);10001 to 10010

TBC-18P(2/4); TIME BASE CORRECTOR



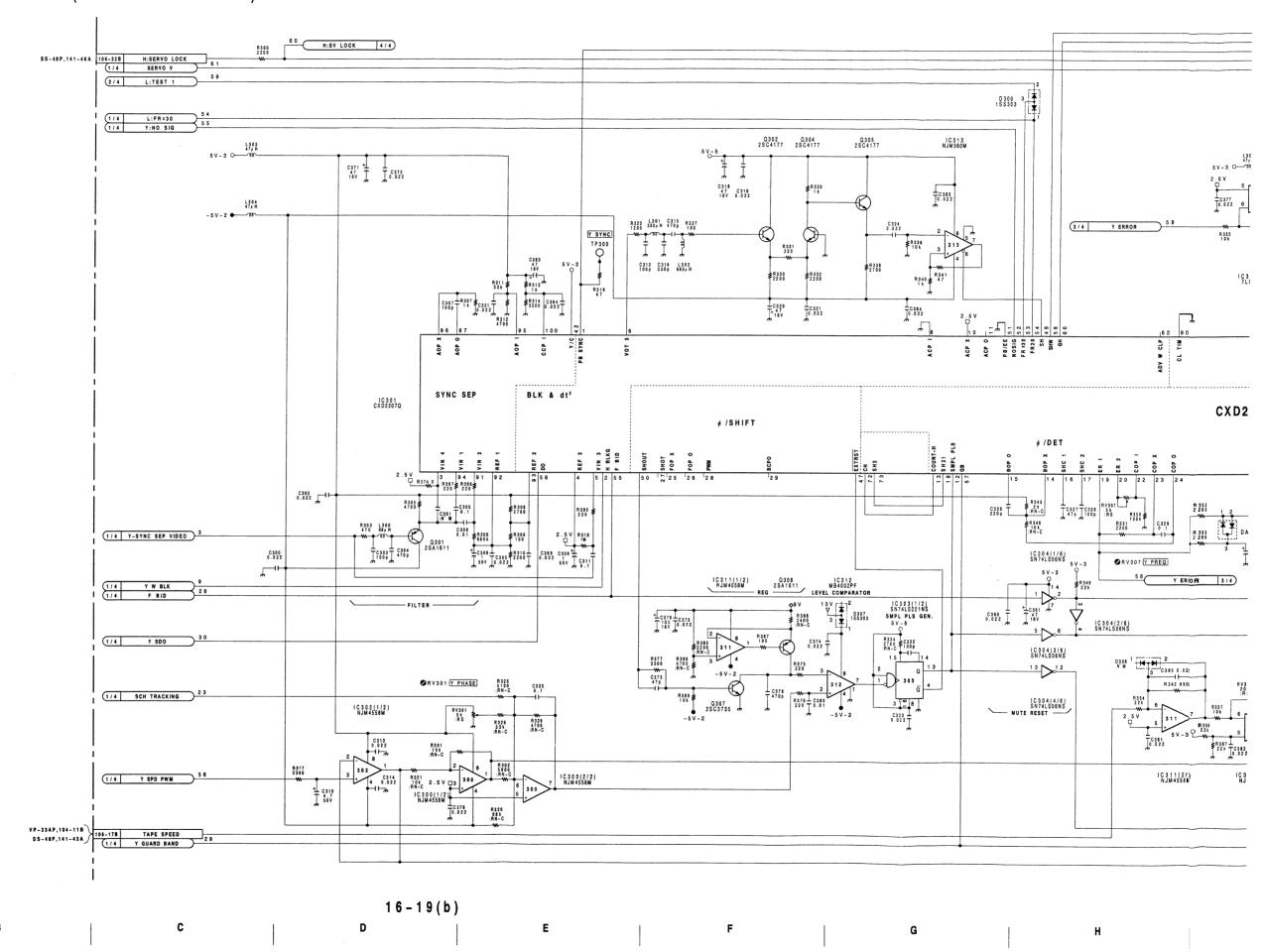
16-18(b)
A B C D E F G H

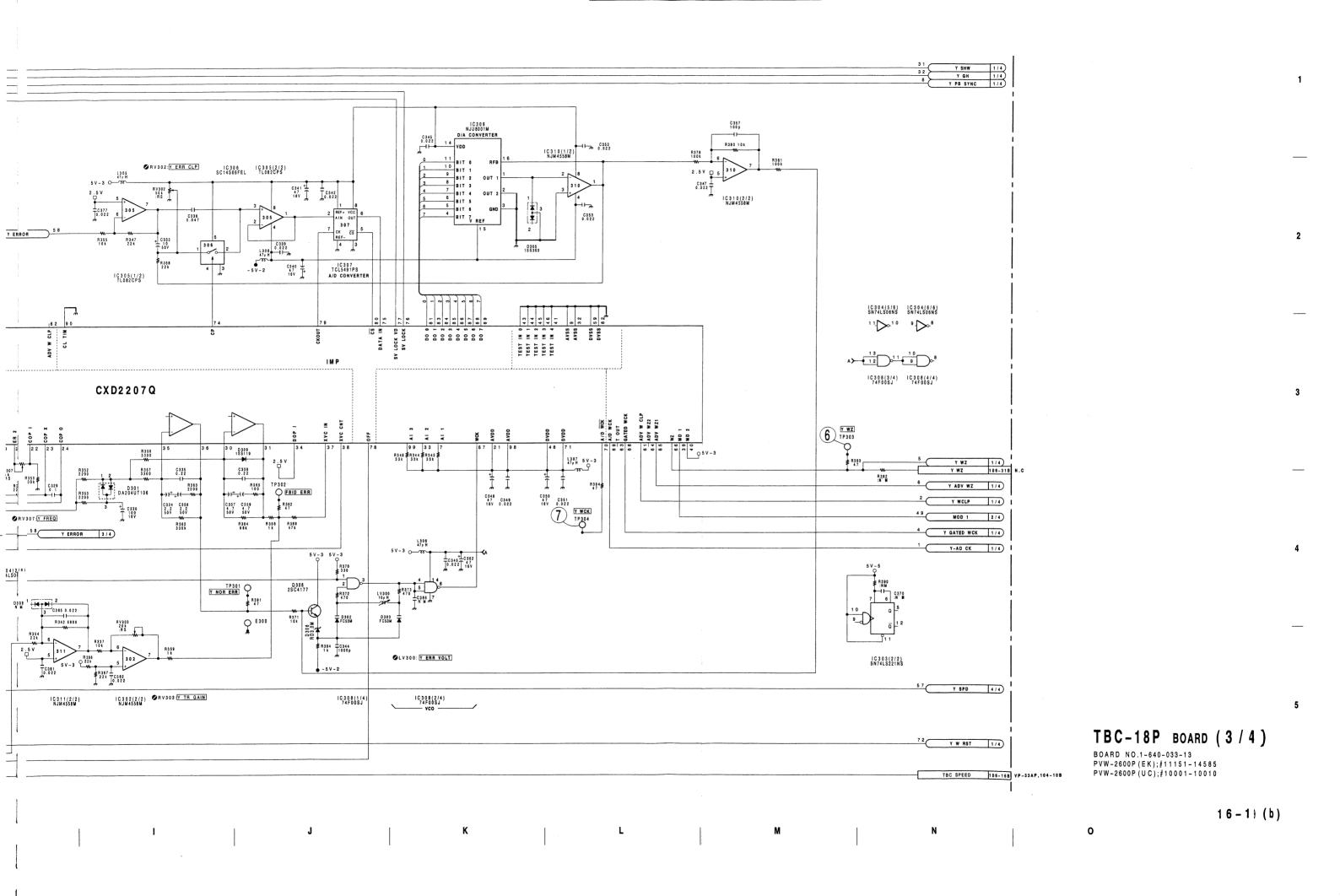


PVW-2600P (EK); #11151-14585 PVW-2600P(UC);#10001-10010

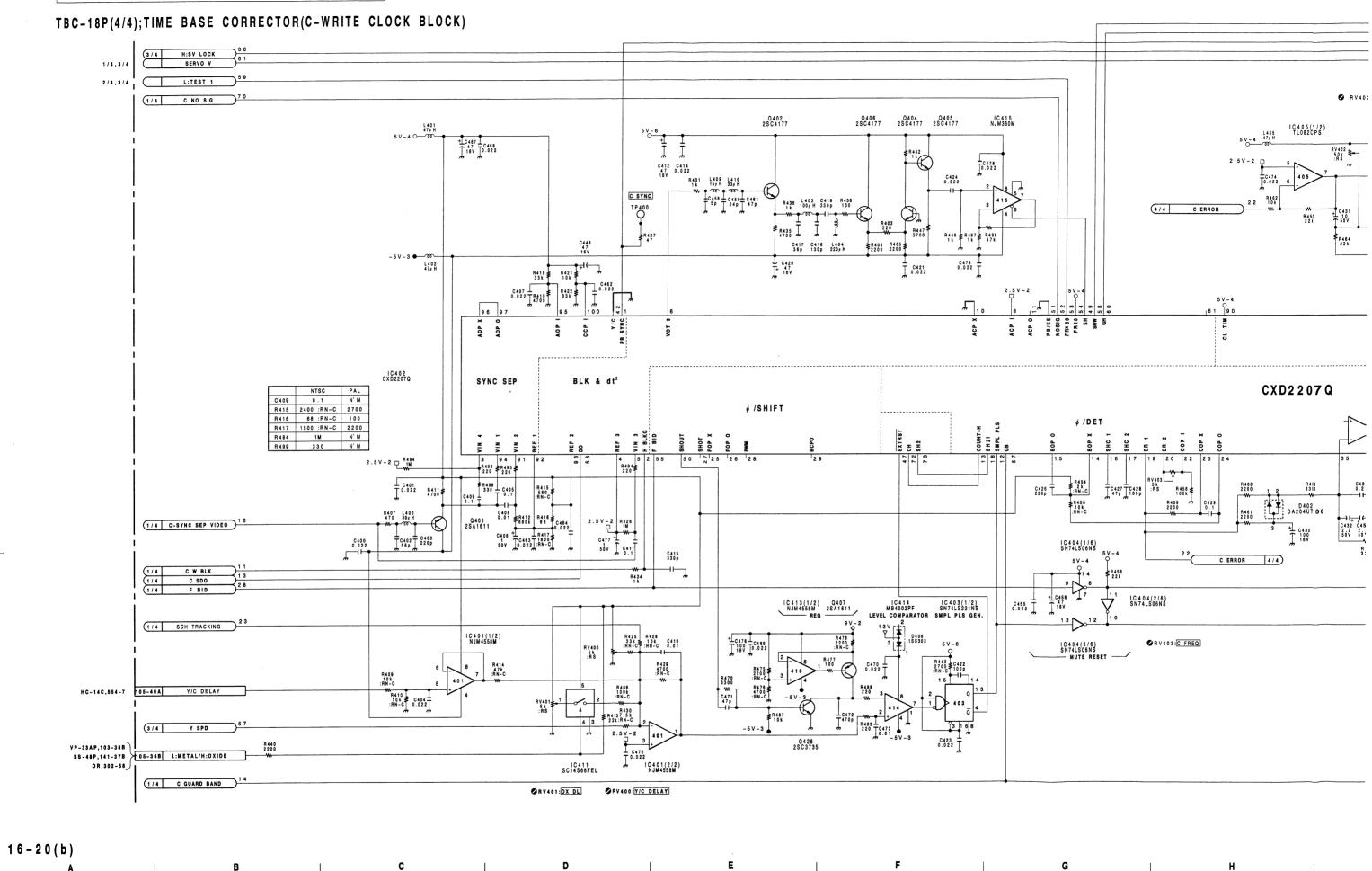
16-18(b) 0

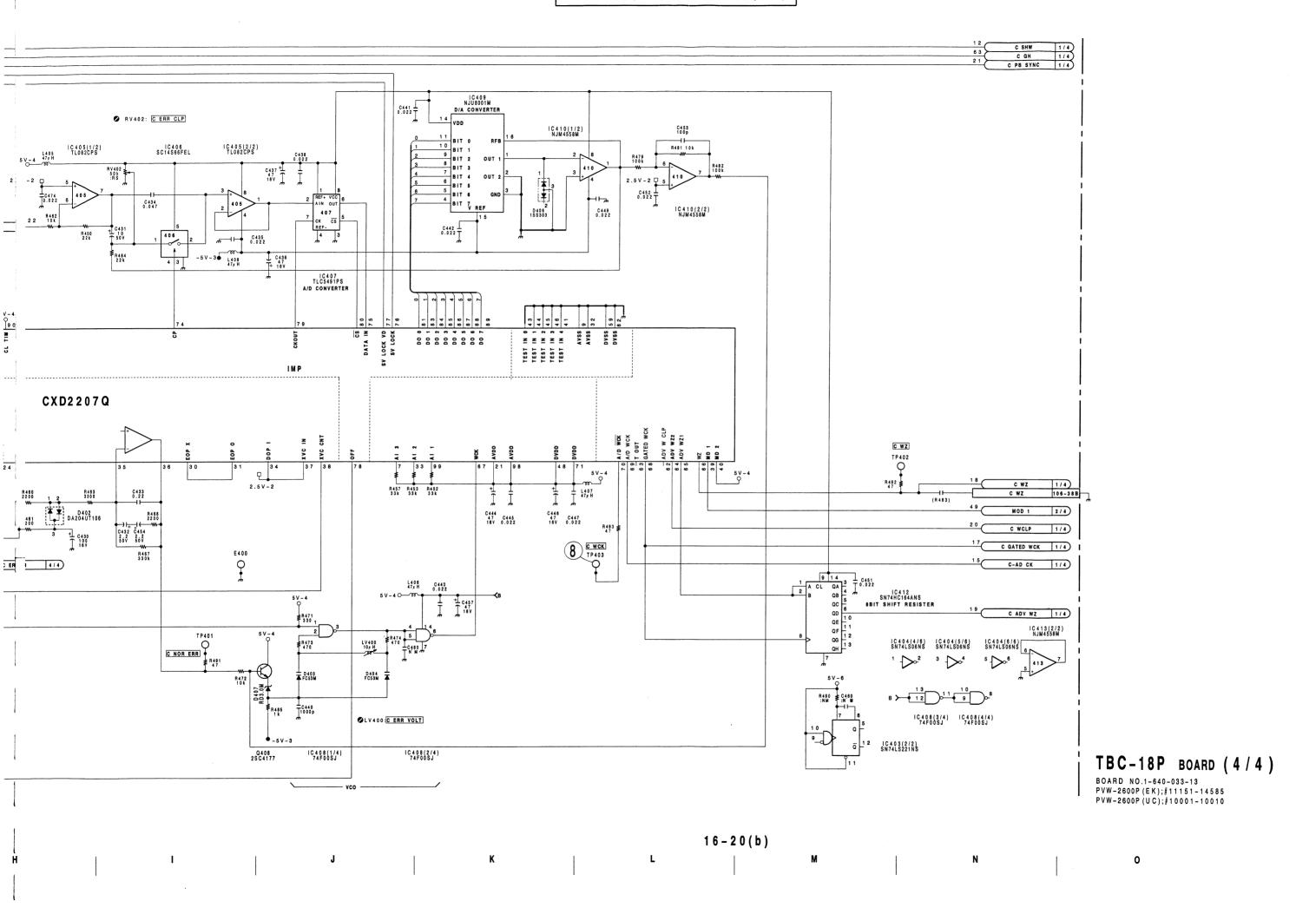
TBC-18P(3/4); TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)





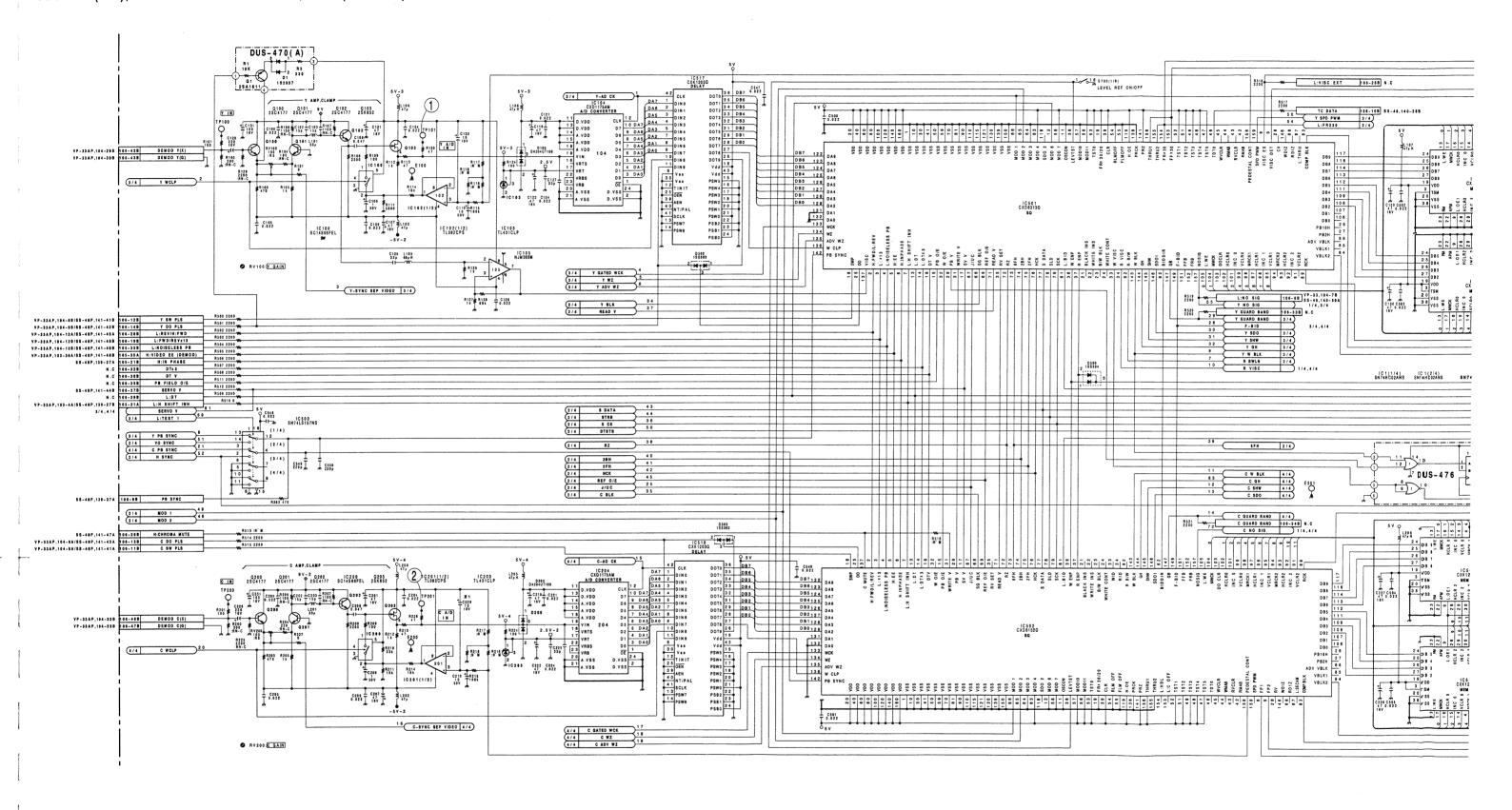
Serial No.(EK);11151 to 14585 Serial No.(UC);10001 to 10010



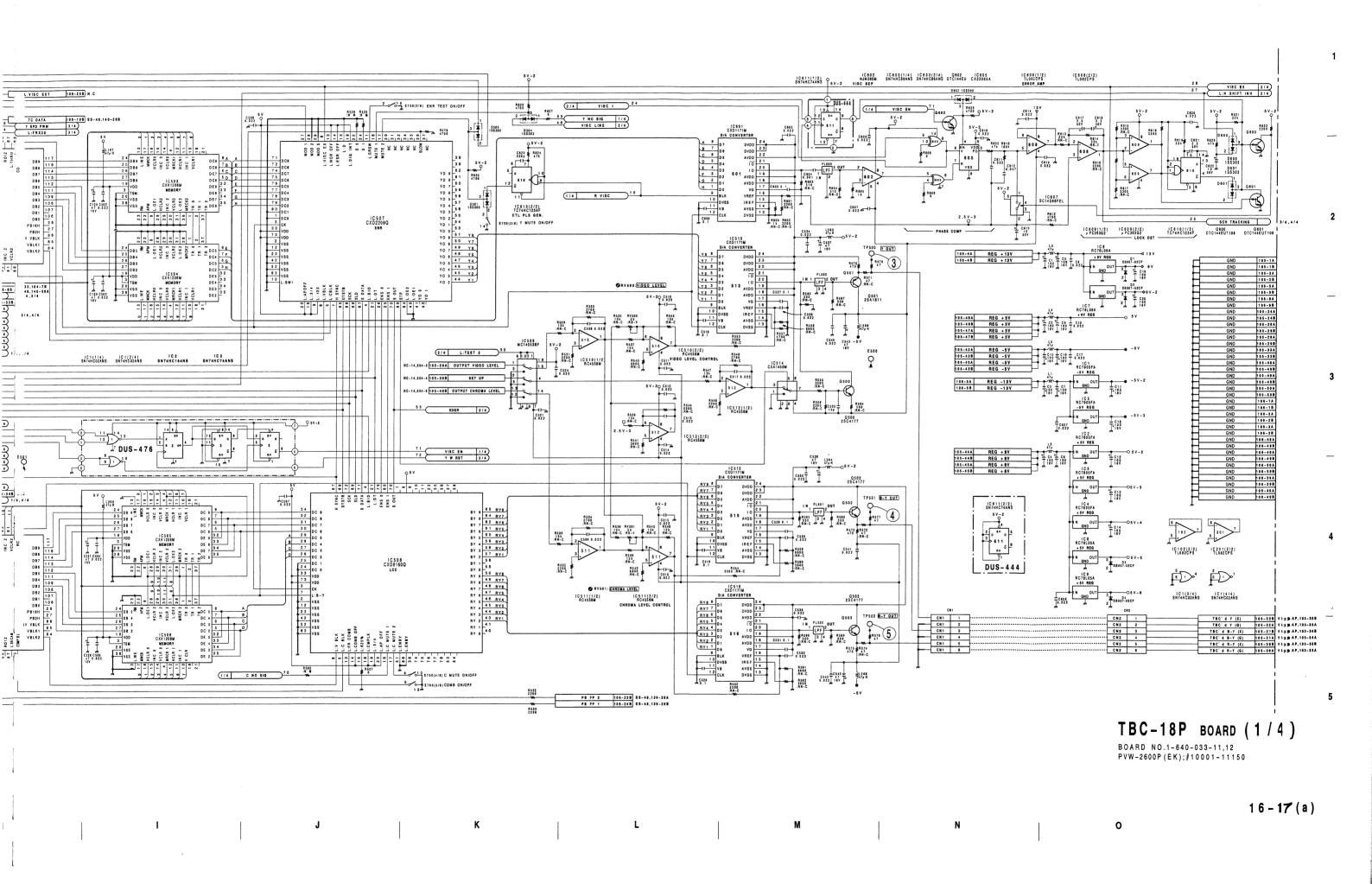


Serial No.(EK);10001 to 11150

TBC-18P(1/4); TIME BASE CORRECTOR, CTDM(EXPAND)

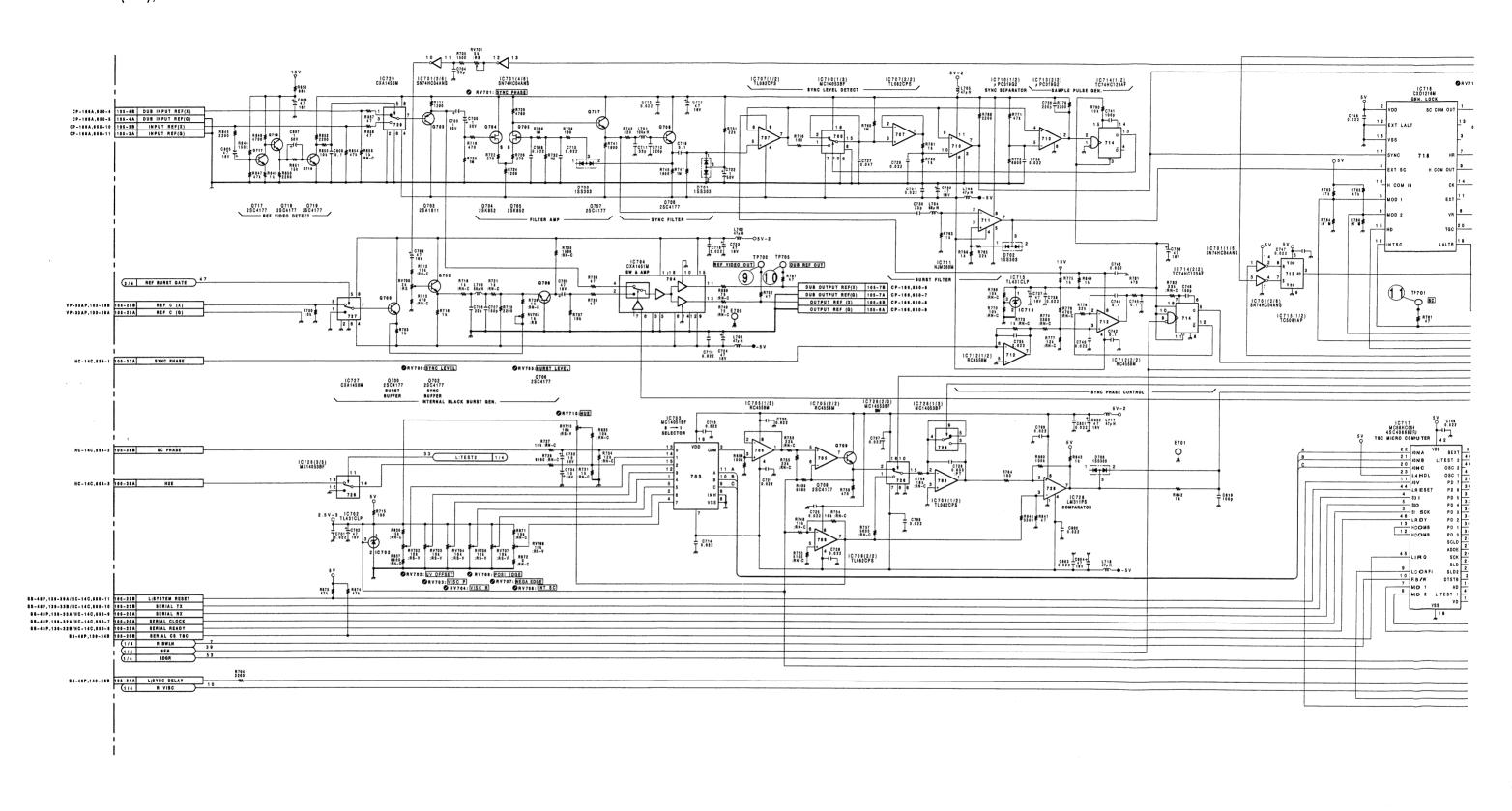


16-17(a) A B C D E F G H I

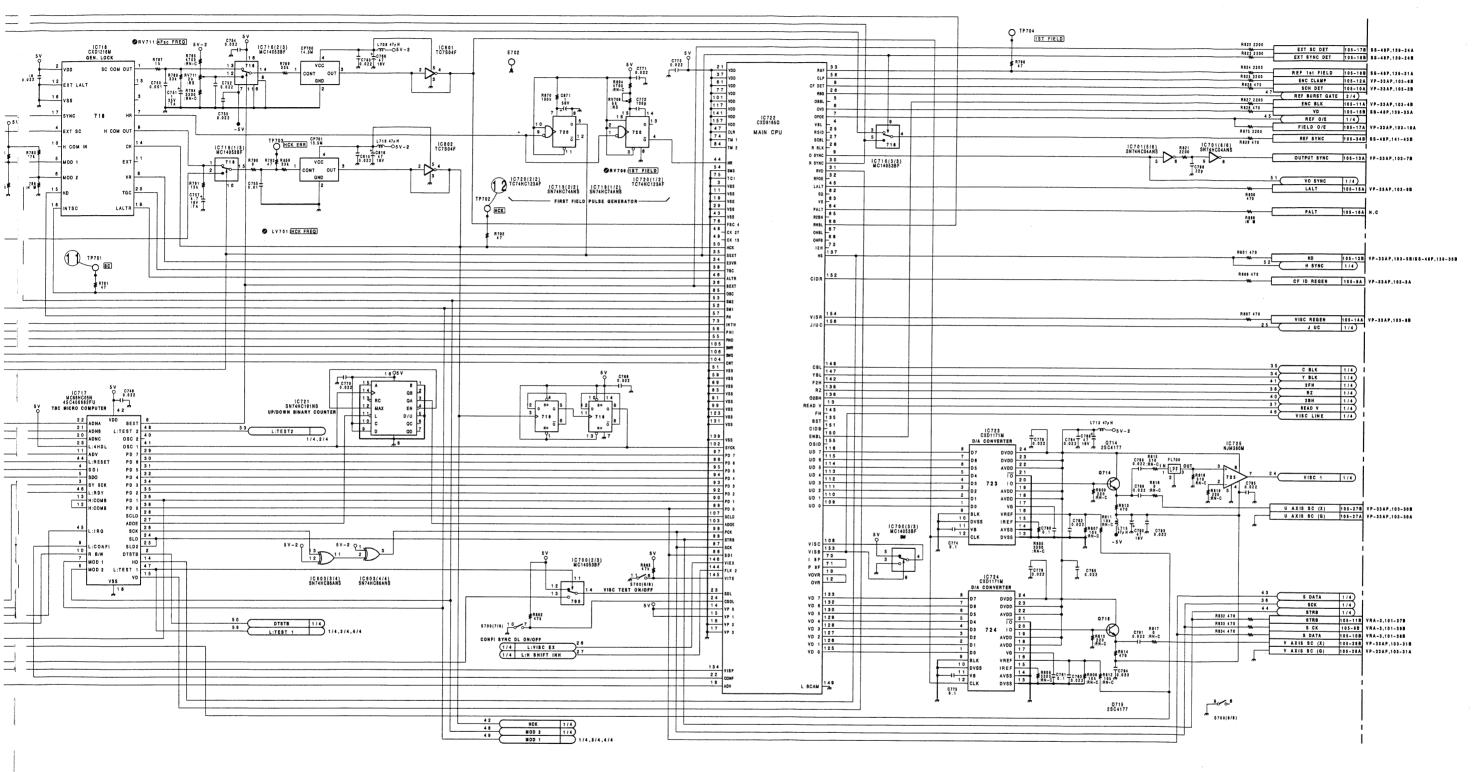


Serial No.(EK);10001 to 11150

TBC-18P(2/4); TIME BASE CORRECTOR



16-18(a) A B C D E F G H



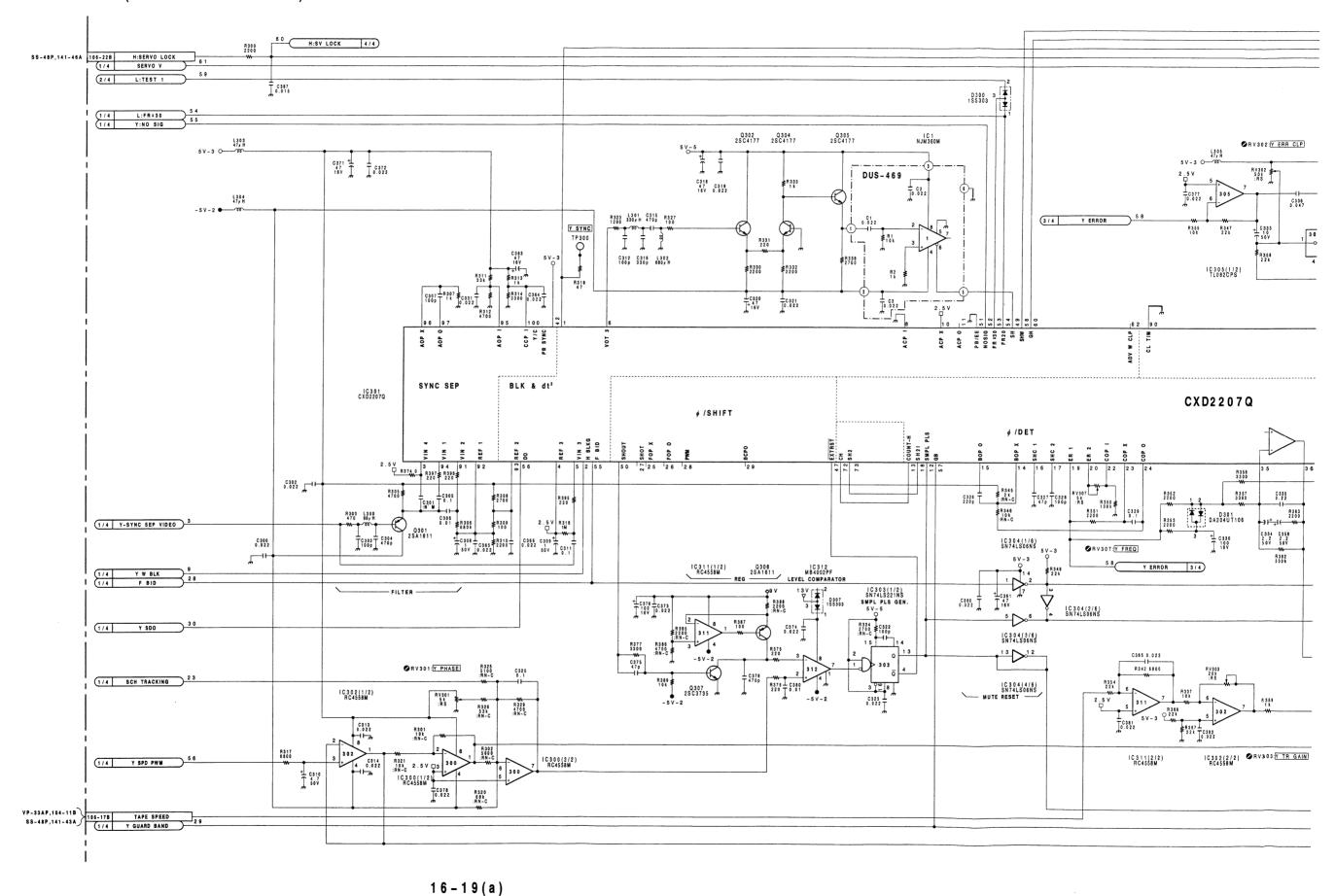
TBC-18P BOARD (2/4)

BOARD NO.1-640-033-11,12 PVW-2600P(EK);#10001-11150

16-18(a) L N O

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TBC-18P(3/4); TIME BASE CORRECTOR(Y-WRITE CLOCK BLOCK)

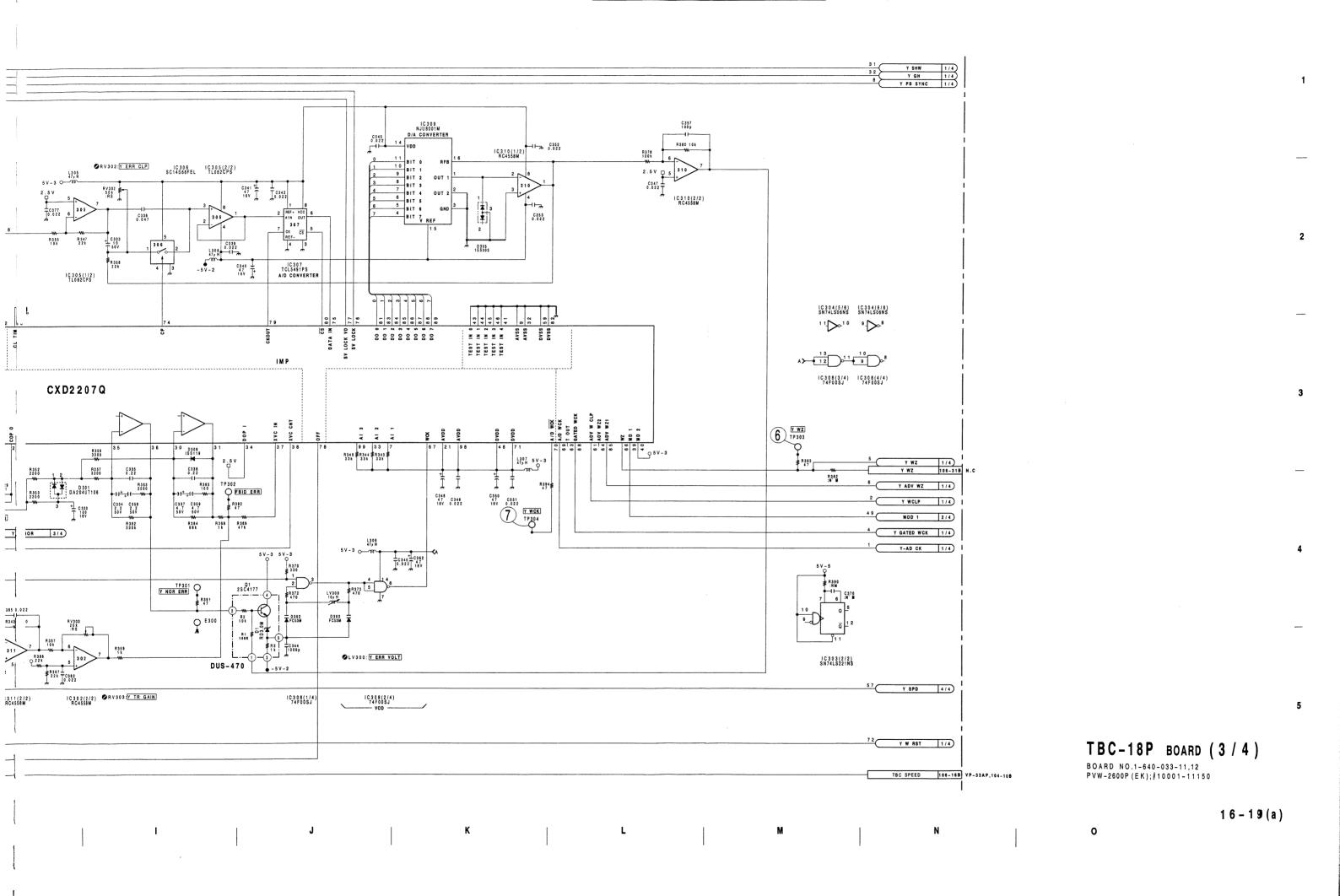


В

D

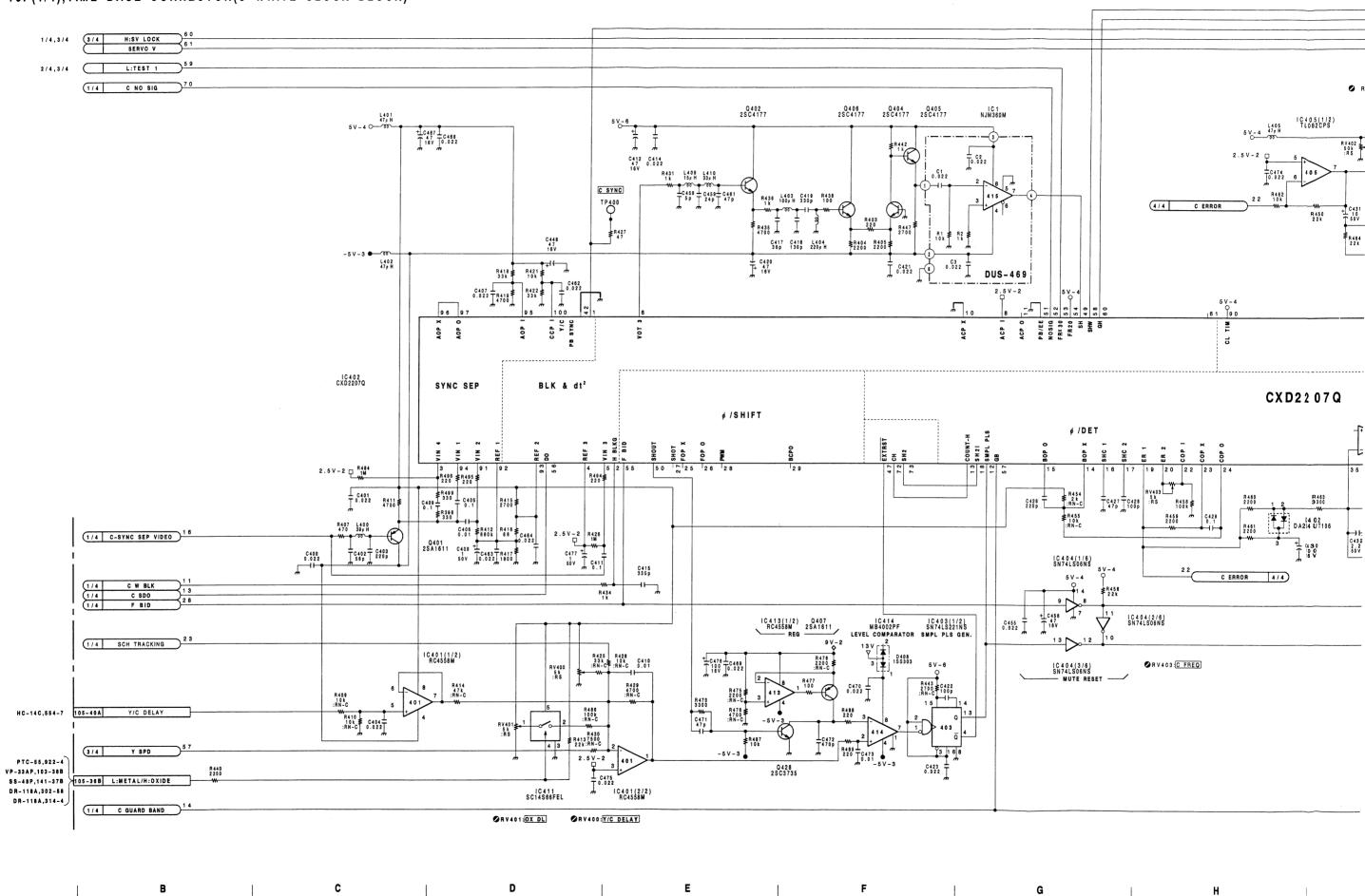
G

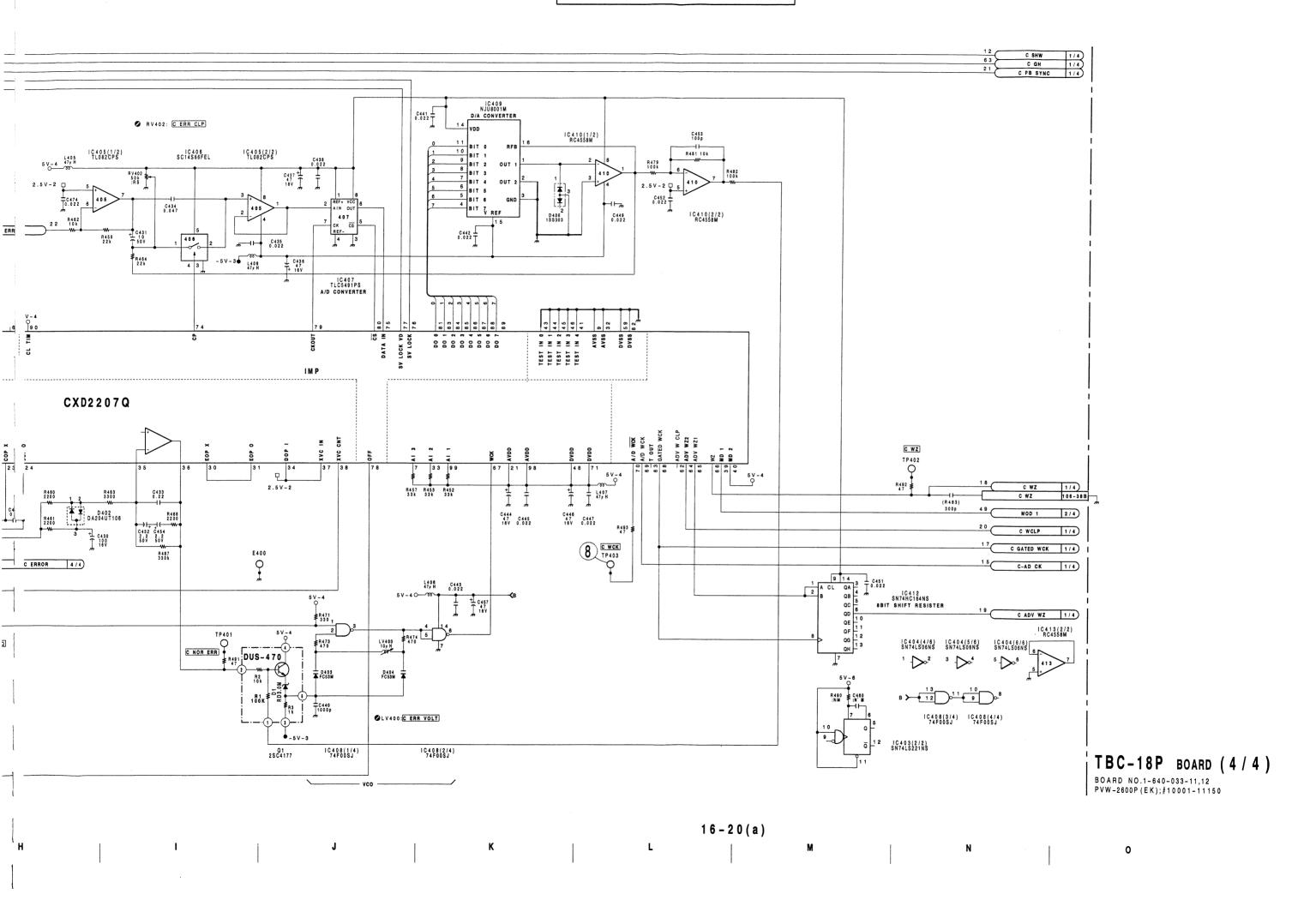
Н



16-20(a)

TBC-18P(4/4); TIME BASE CORRECTOR(C-WRITE CLOCK BLOCK)





Serial No.(EK);15256 and higher Serial No.(UC);10011 and higher CP-166A; OUTPUT CONNECTOR, COMPONENT OUT DRIVER REF. VIDEO OUT 750 C1 ON OFF 16V VIDEO OUT 1 REF. VIDEO IN INPUT REF(Q) | 650-11 ≢ R4 VIDEO OUT 2 CN1(2/2) VIDEO OUT 3 VP-33AP,103-20A 853-2 OUTPUT S-VIDEO Y(G)
VP-33AP,103-208 853-1 OUTPUT S-VIDEO Y(X)
VP-33AP,103-258 853-3 OUTPUT S-VIDEO C(X)
VP-33AP,103-25A 853-4 OUTPUT S-VIDEO C(G) COMPONENT 2 Y OUT 0.022 I R-Y OUT IC 1 VP-33AP,103-21B 653-5 OUTPUT Y(X) VP-33AP,103-21A 653-6 OUTPUT Y(G) B-Y OUT 14 1 0 3 5 6 1 2 8 9 0.022 T R14 75 CH10(2/3) IC 2 VP-33AP,103-22B 653-7 OUTPUT R-Y(X) VP-33AP,103-22A 653-8 OUTPUT R-Y(G) T 0.022 0.022 I 10 3 C CXIII

DUB Y OUT(X) 1

DUB N-YIY DO OUT(X) 3

DUB R-YIY DO OUT(X) 4

DUB R-YIY DO OUT(X) 5

DUB R-YIB-Y OUT(X) 5

DUB R-YIB-Y OUT(X) 7

DUB R-YIB-Y OUT(X) 7

DUB R-YIB-Y OUT(X) 9

DUB REF VIDEO IN(X) 9

DUB REF VIDEO IN(X) 9

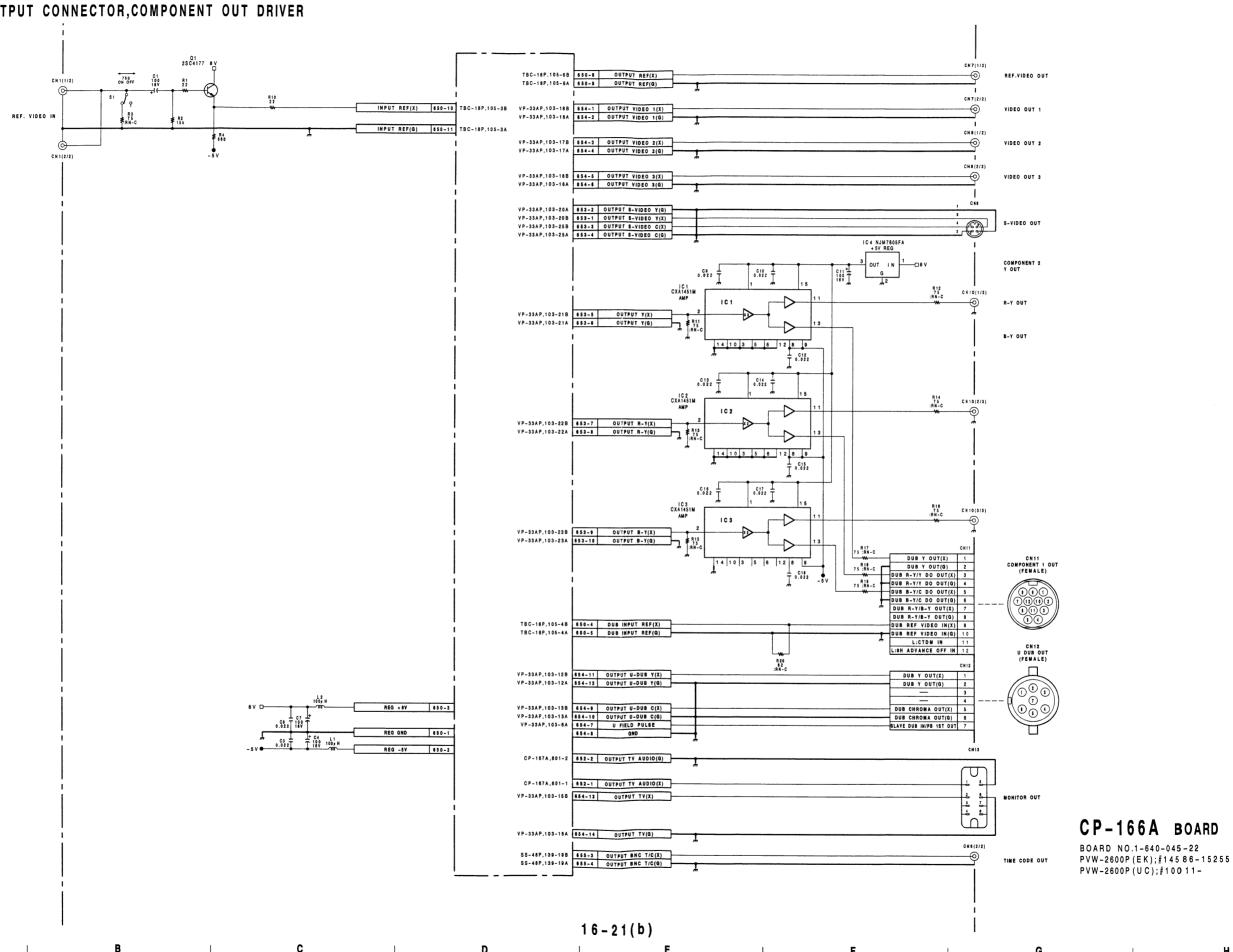
LICTOM IN 11

LISH ADVANCE OFF IN 12 T 0.022 -5V 75 :RN-C R20 82 :RN-C VP-33AP,103-12B 654-11 OUTPUT U-DUB Y(X) VP-33AP,103-12A 654-12 OUTPUT U-DUB Y(Q) DUB Y OUT(X) 1
DUB Y OUT(Q) 2 VP-33AP,103-13A 884-9 OUTPUT U-DUB C(X)
VP-33AP,103-13A 884-16 OUTPUT U-DUB C(G)
VP-33AP,103-6A 884-7 U FIELD PUBE 684-8 GNO DUB CHROMA OUT(X) 5
DUB CHROMA OUT(G) 6 . Sez 7 180 7 LAVE DUB IN/PB 1ST OUT CP-187A,601-2 852-2 OUTPUT TY AUDIO(G) CP-187A,601-1 652-1 OUTPUT TV AUDIO(X) VP-33AP,103-15B 654-13 OUTPUT TV(X) MONITOR OUT لما CP-166A BOARD VP-33AP,103-15A 854-14 OUTPUT TV(Q) CN6(2/2) \$8-48P,139-19B 655-3 OUTPUT BNC T/C(X) \$8-48P,139-19A 655-4 OUTPUT BNC T/C(Q) BOARD NO.1-640-045-23 TIME CODE OUT PVW-2600P(EK);#15256-PVW-2600P(UC);#10011-16-21(c) 16-21(c) Ε

Serial No.(EK);14586 to 15255 Serial No.(UC);10011 and higher

CP-166A; OUTPUT CONNECTOR, COMPONENT OUT DRIVER

16-21(b)

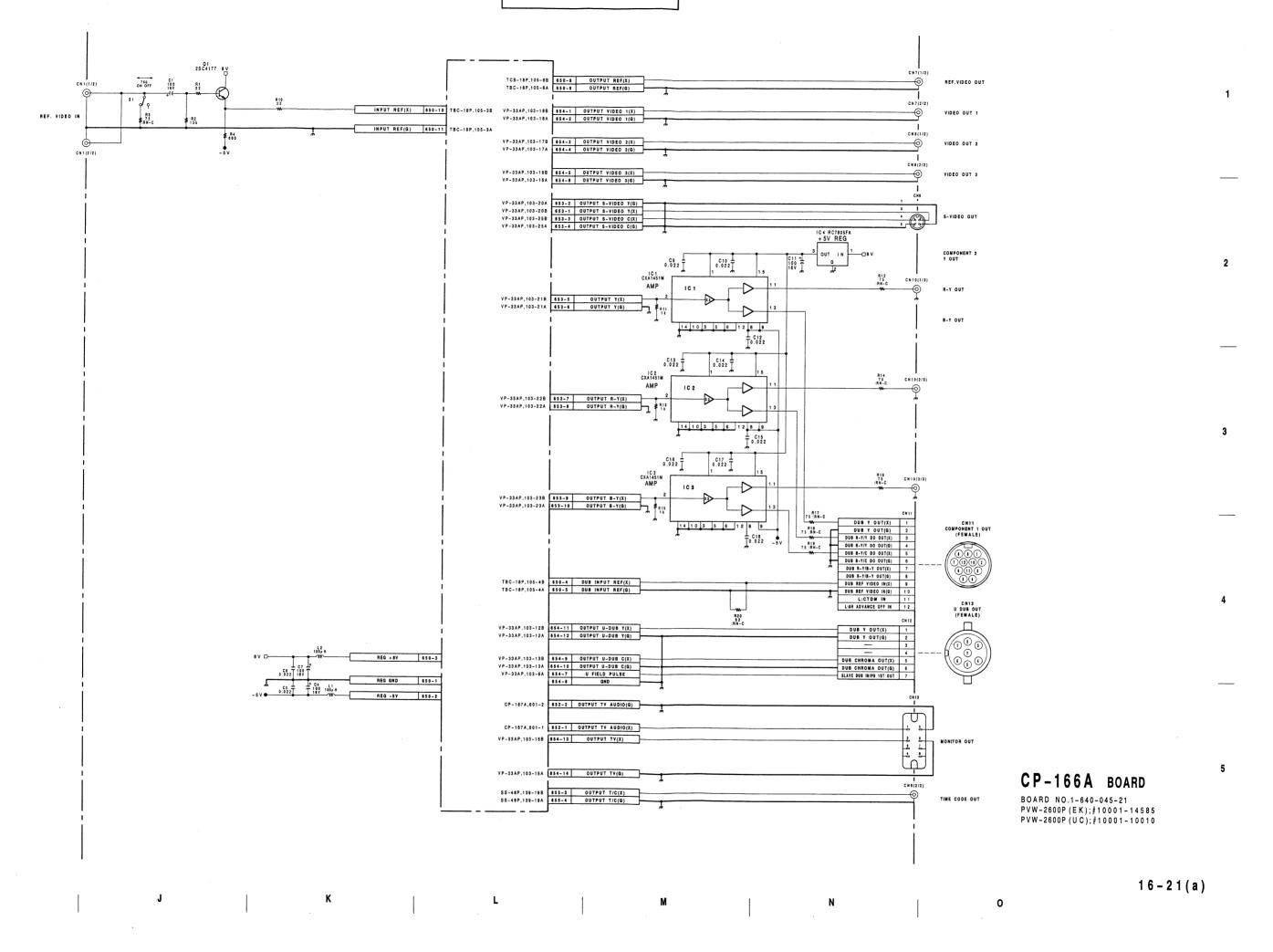


CP-166A CP-166A

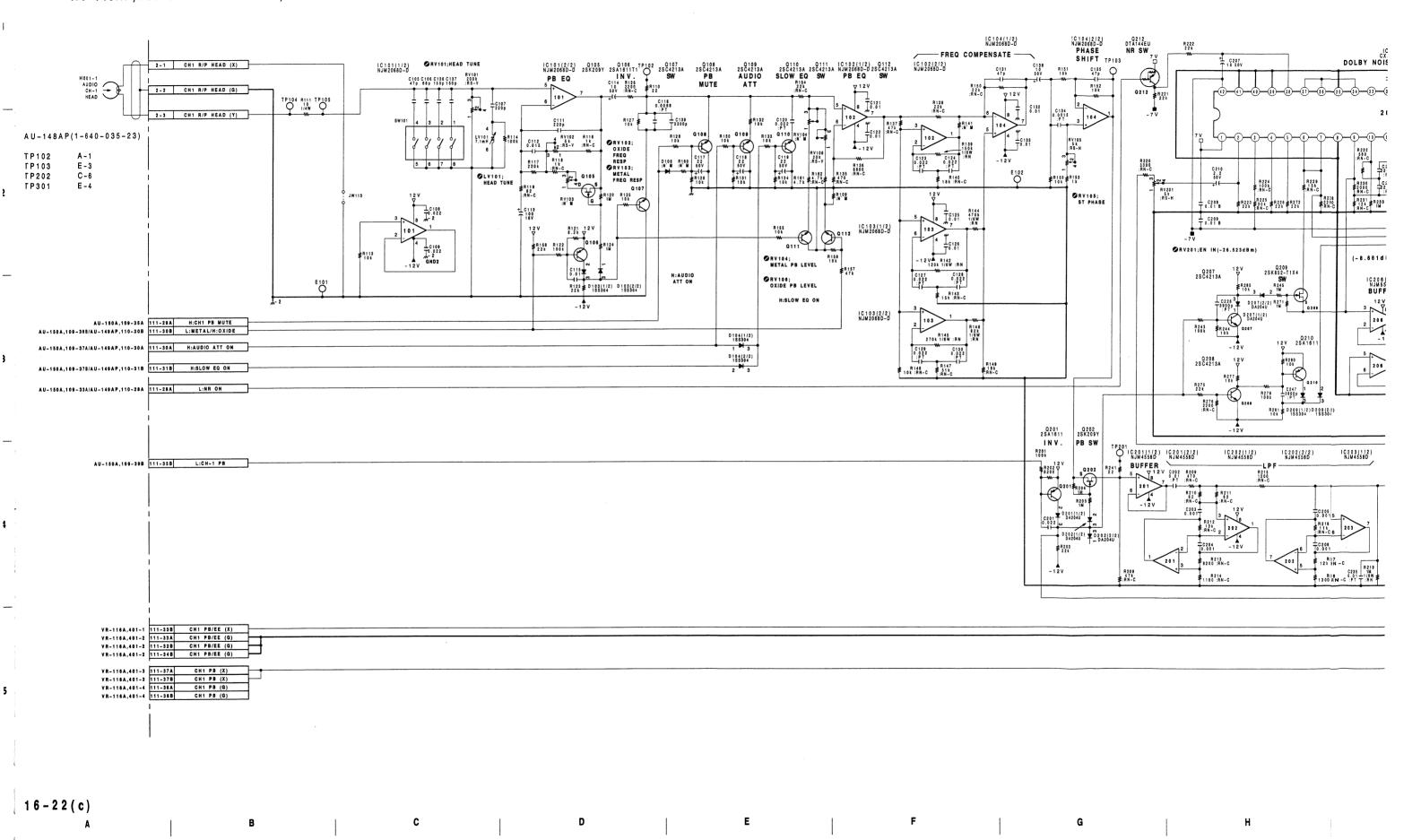
Serial No.(EK);10001 to 14585 Serial No.(UC);10001 to 10010

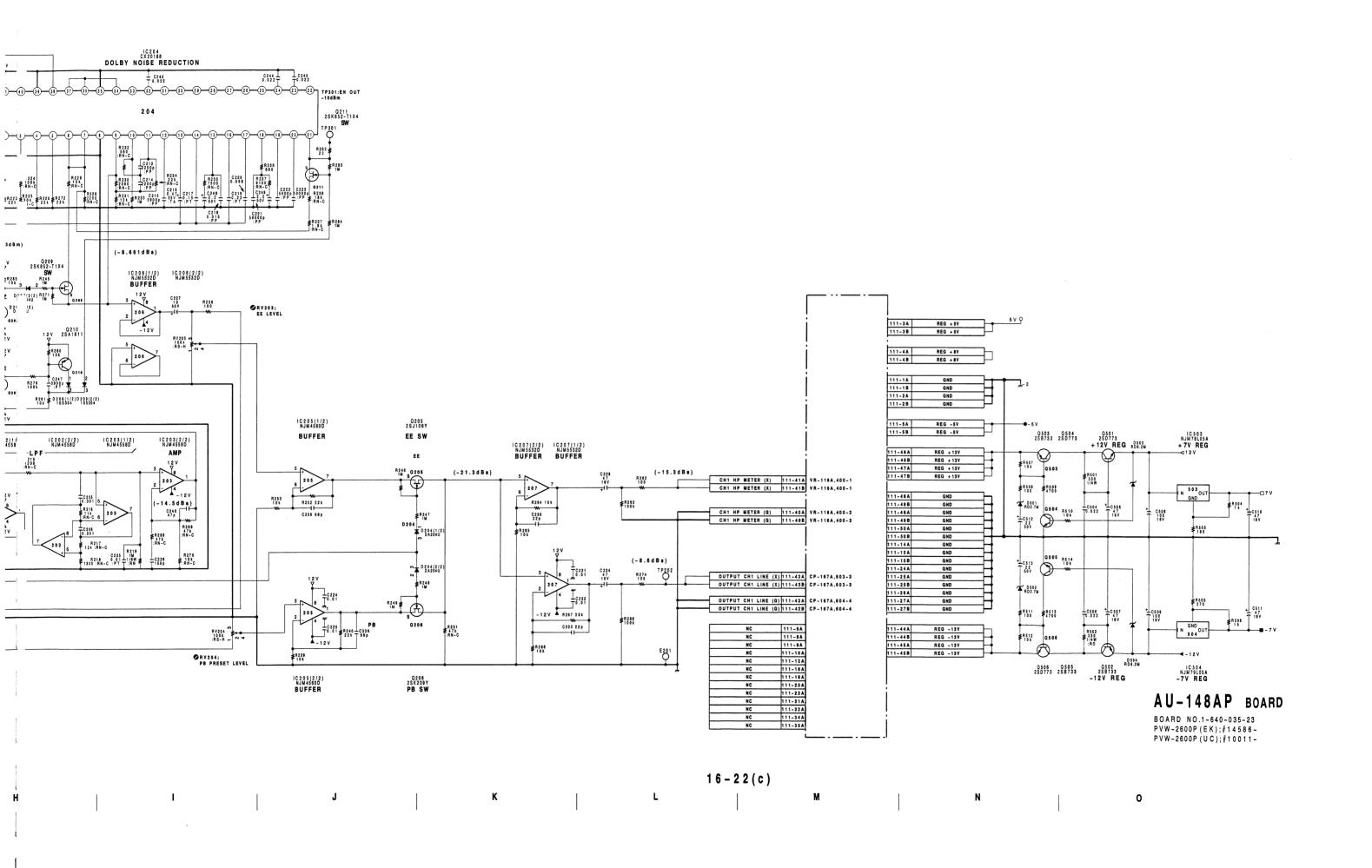
CP-166A; OUTPUT CONNECTOR, COMPONENT OUT DRIVER

16-21(a)



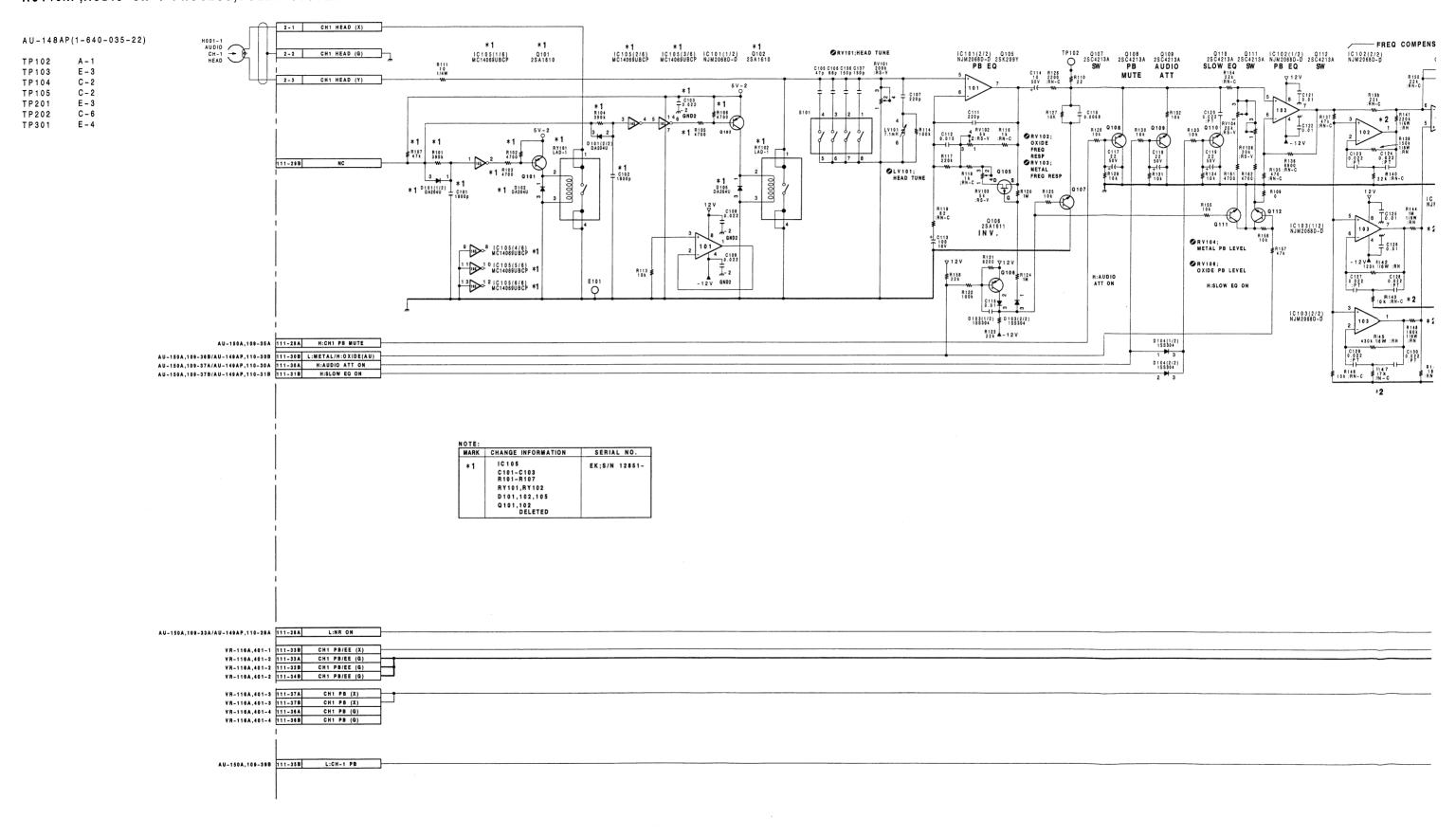
AU-148AP:AUDIO CH-1 PROCESS,DELBY SYSTEM





Serial No.(EK);11151 to 14585 Serial No.(UC);10001 to 10010

AU148AP; AUDIO CH-1 PROCESS, DOLBY SYSTEM



16-22(b)

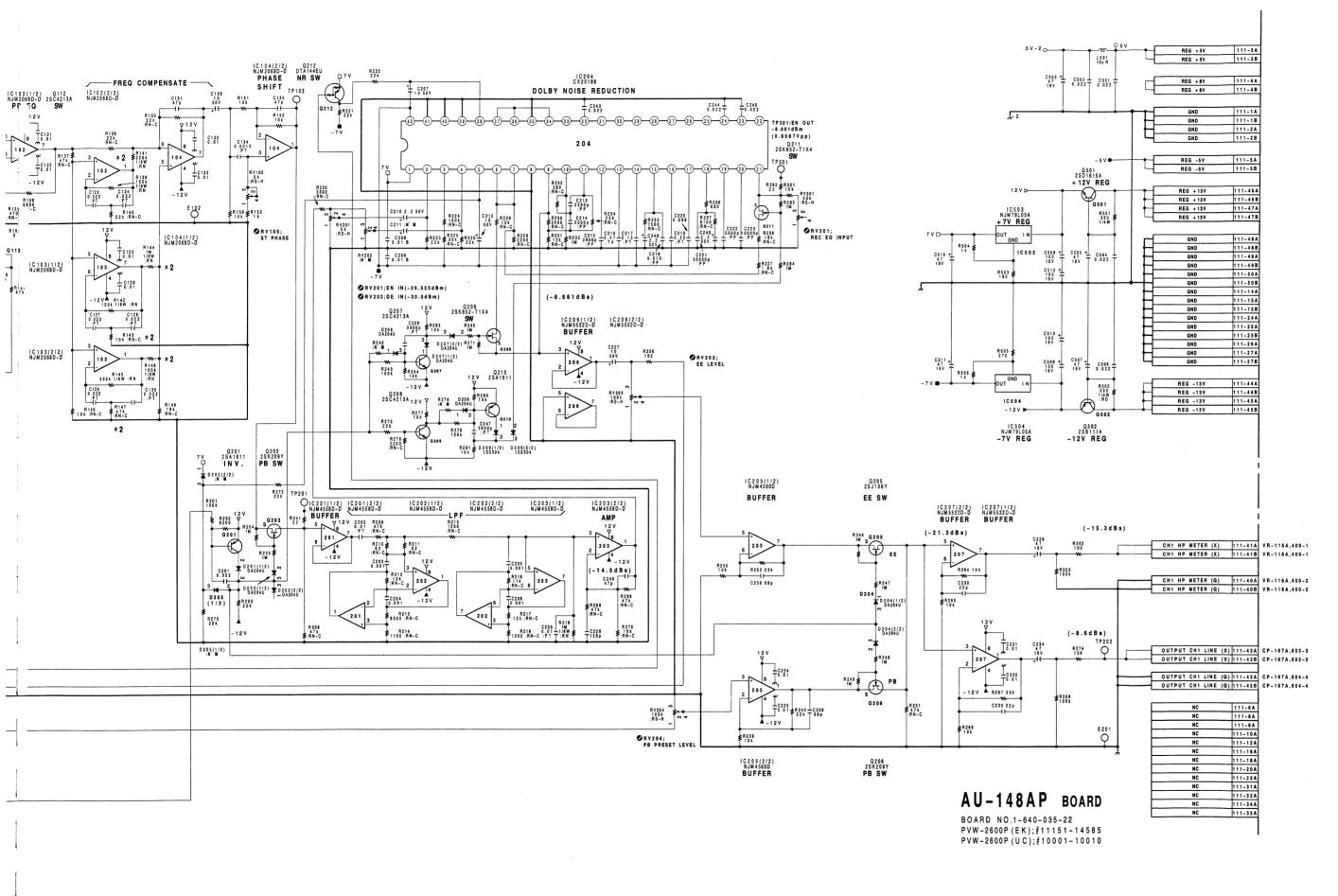
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16-22(b)

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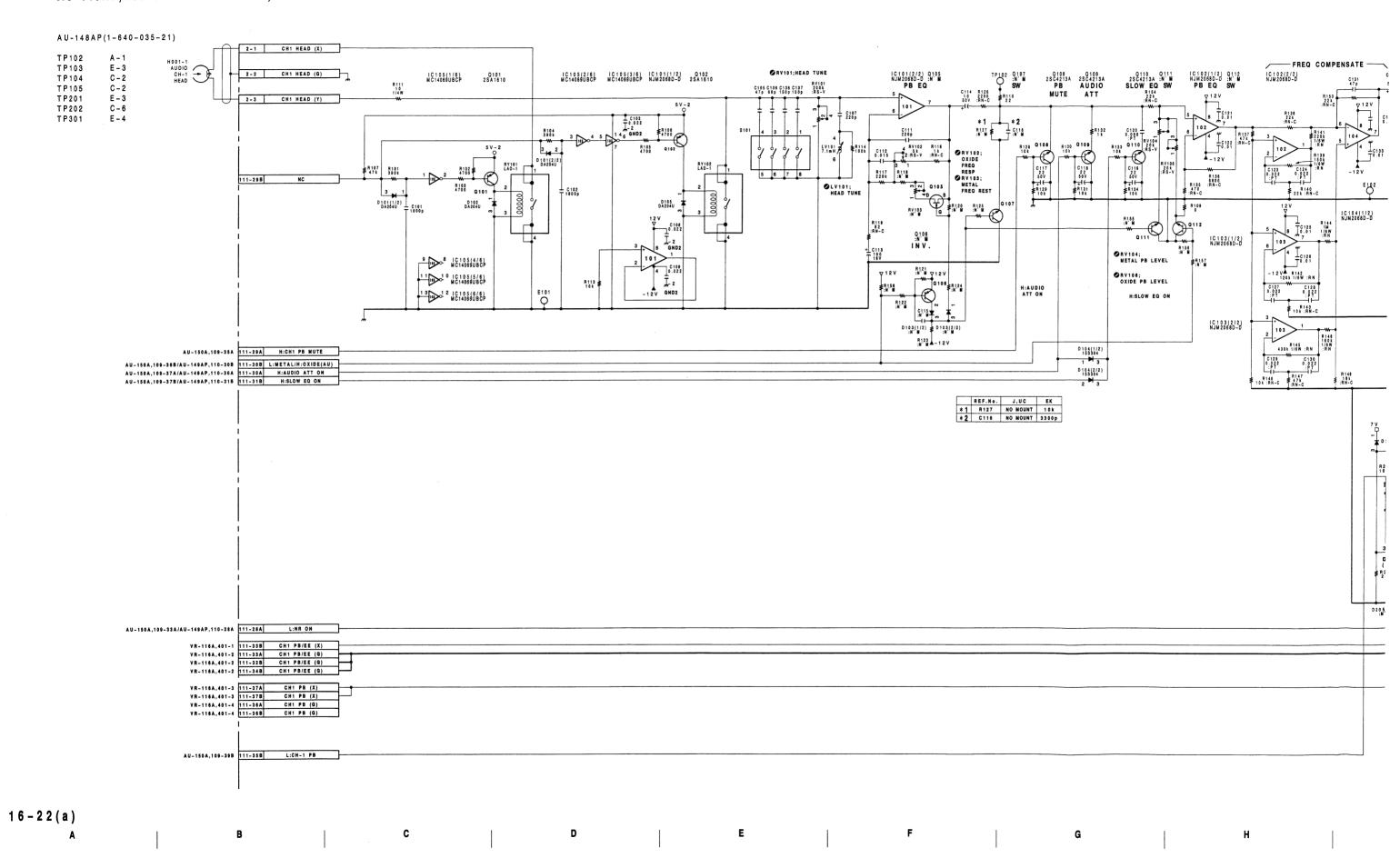
М

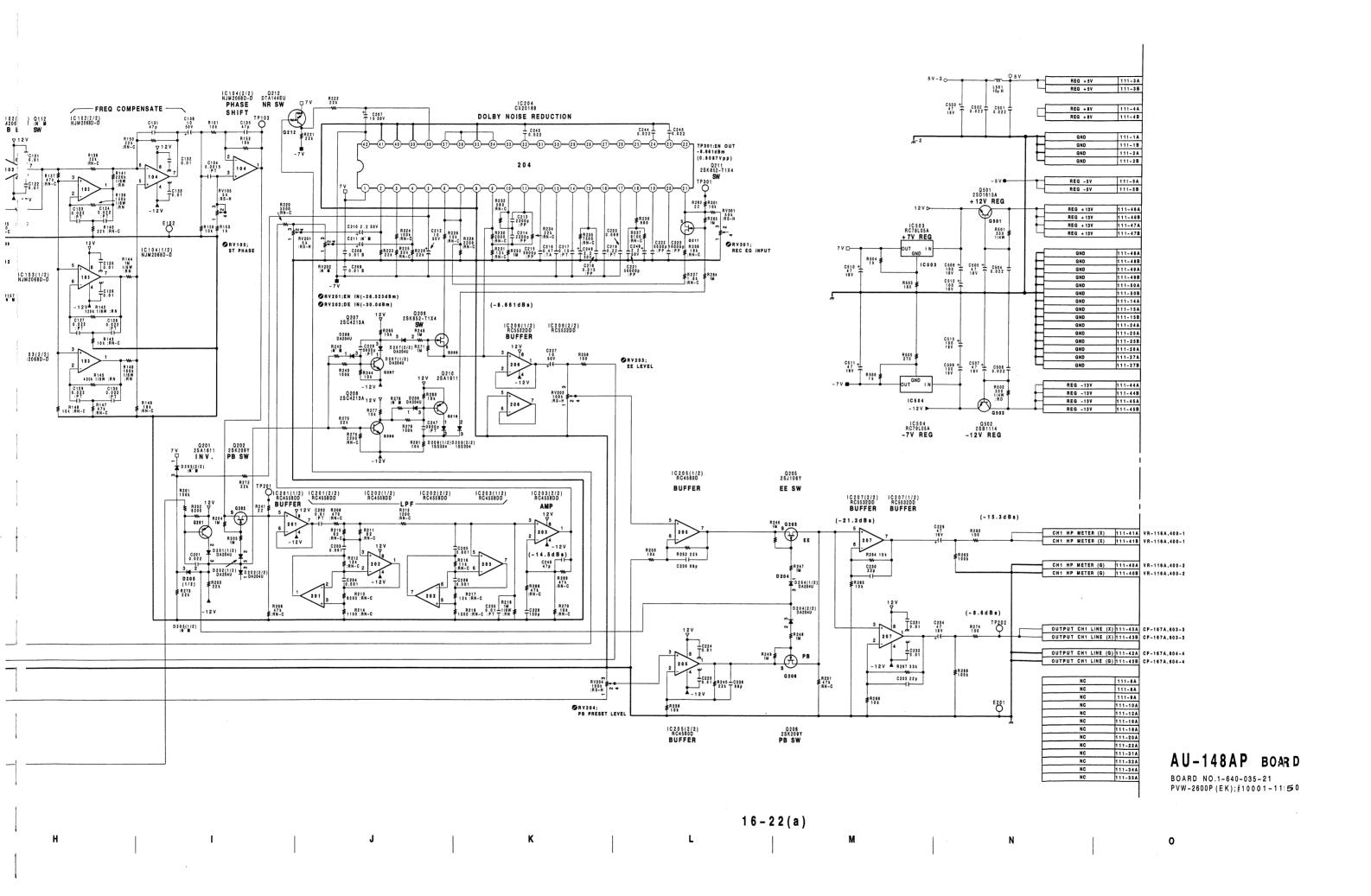
N

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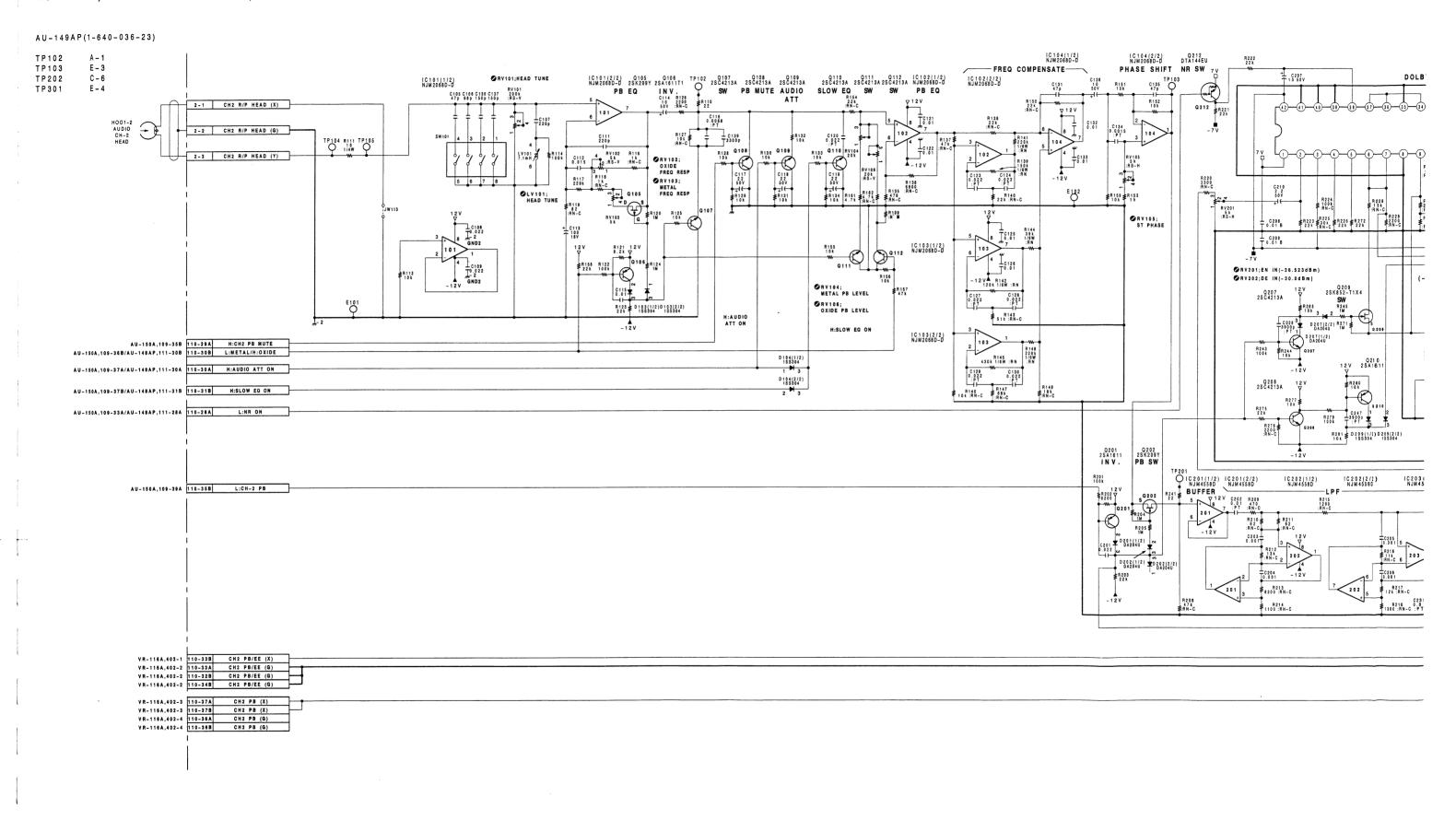
Serial No.(EK);10001 to 11150

AU-148AP; AUDIO CH-1 PROCESS, DOLBY SYSTEM





AU-149AP; AUDIO CH-2 PROCESS, DOLBY SYSTEM



16-23(c)

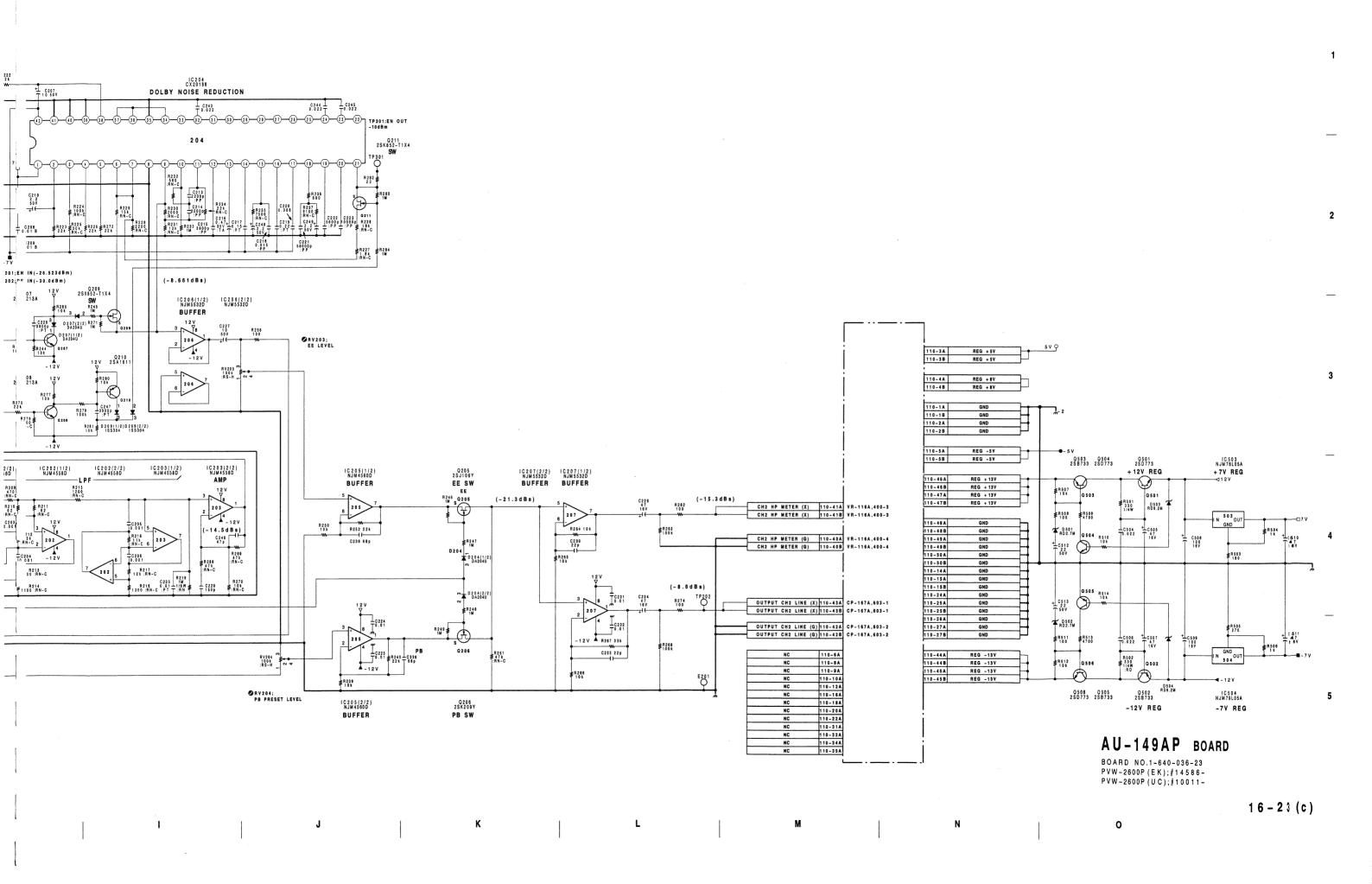
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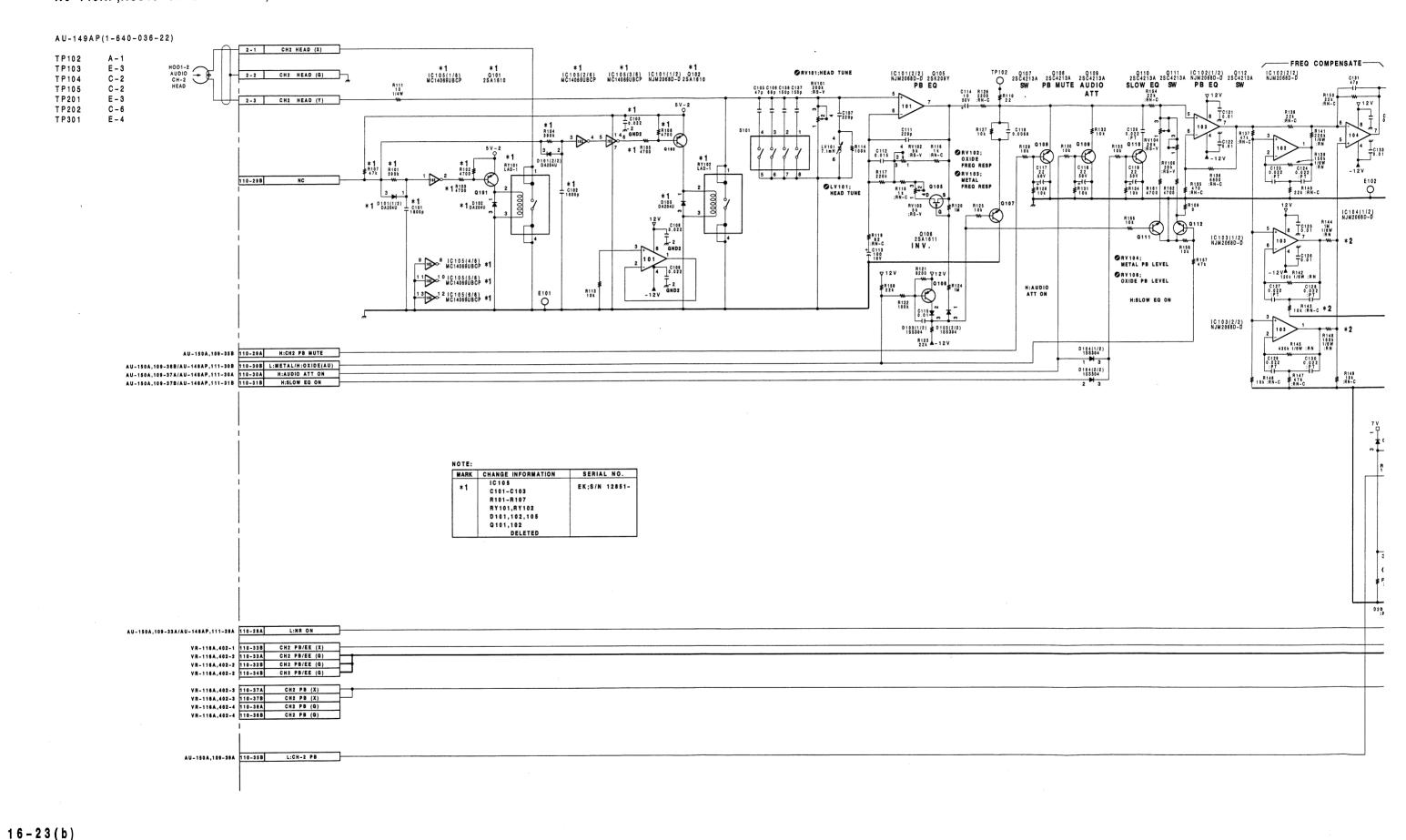
Н

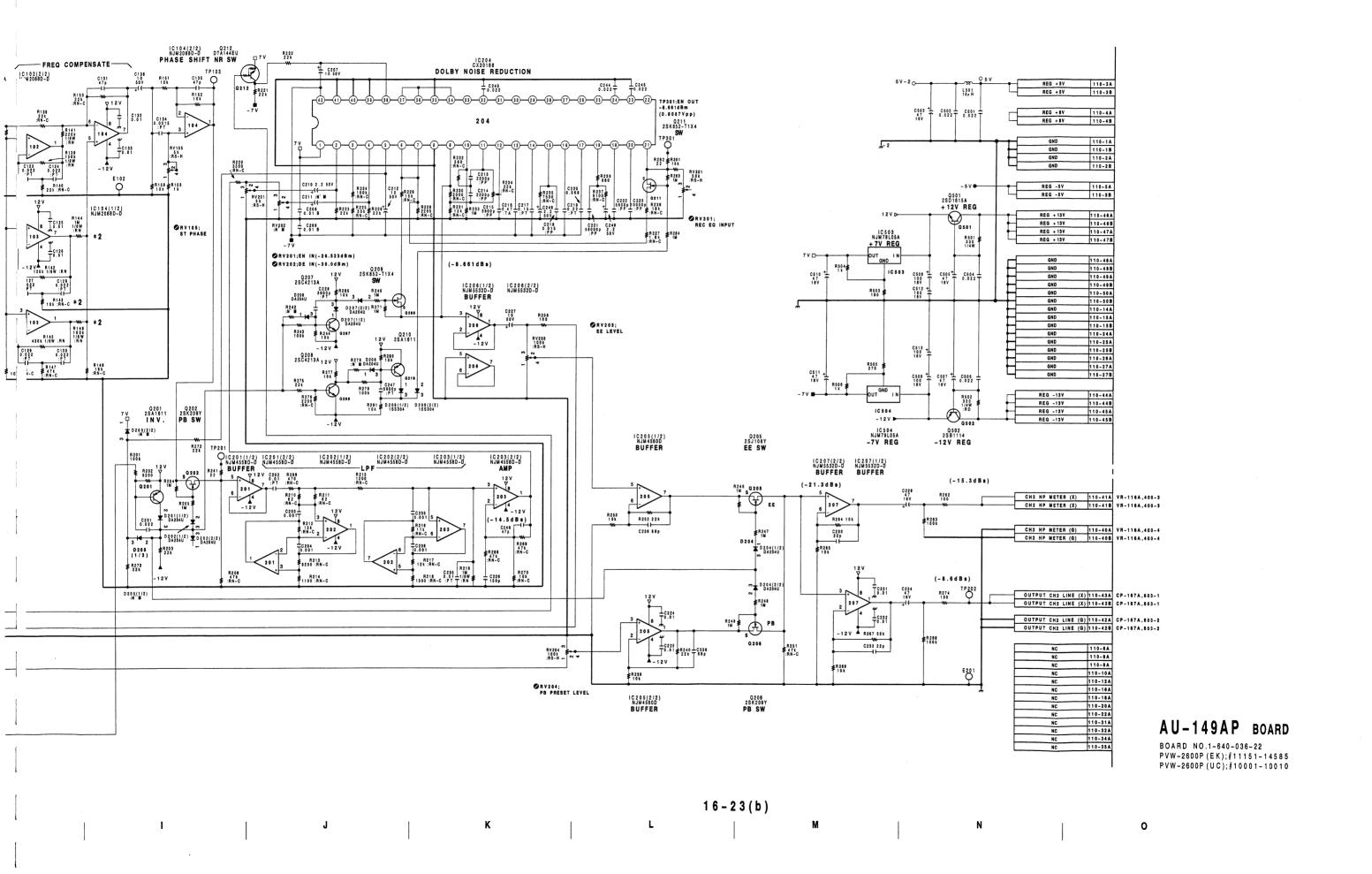
A



Serial No.(EK);11151 to 14585 Serial No.(UC);10011 to 10010

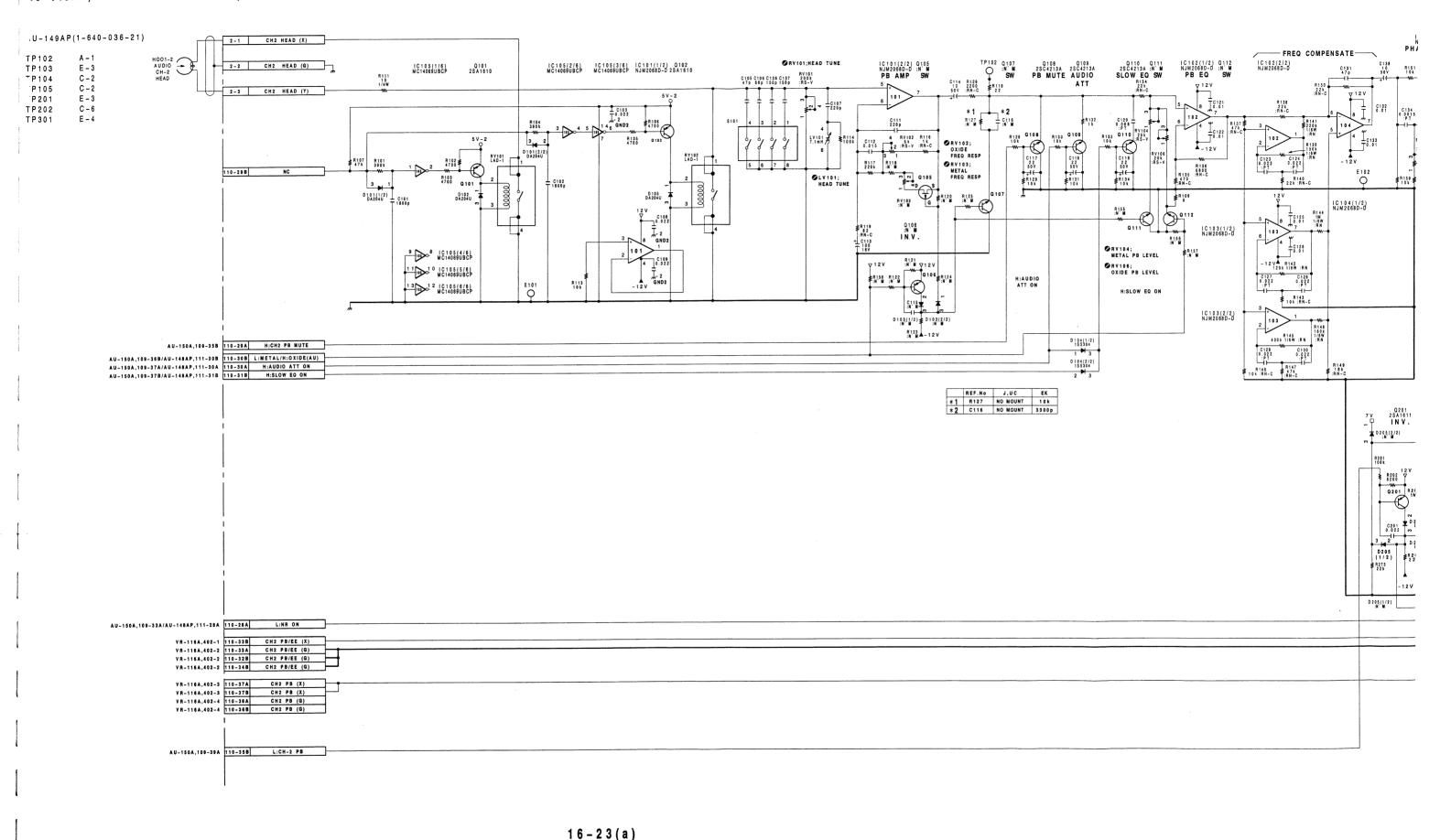
AU-149AP:AUDIO CH-2 PROCESS, DOLBY SYSTEM

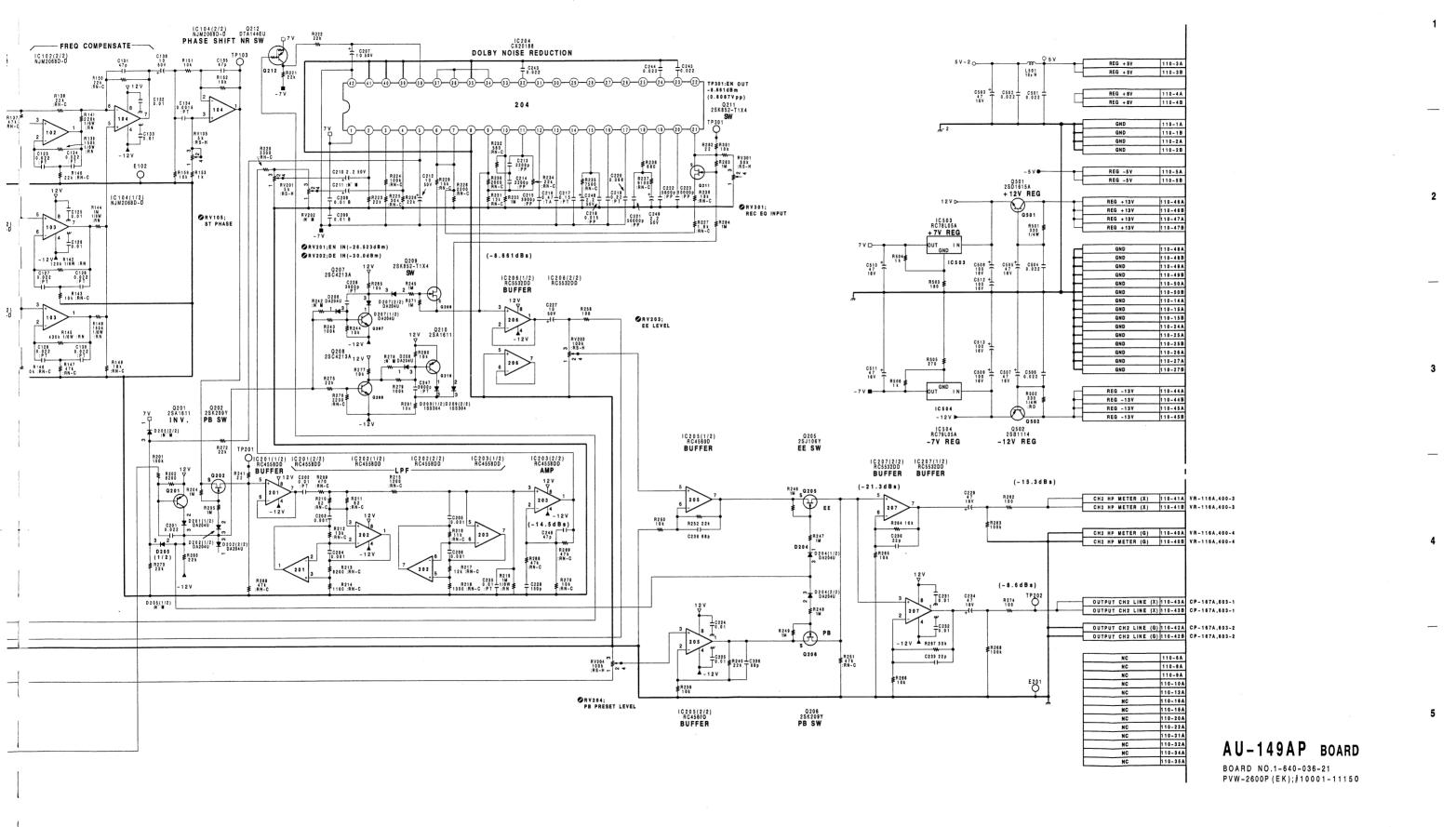




Serial No.(EK);10001 to 11150

AU-149AP; AUDIO CH-2 PROCESS, DOLBY SYSTEM





16-23(a)

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AU-150/

SS-48P,141-8A SS-48P,139-23A

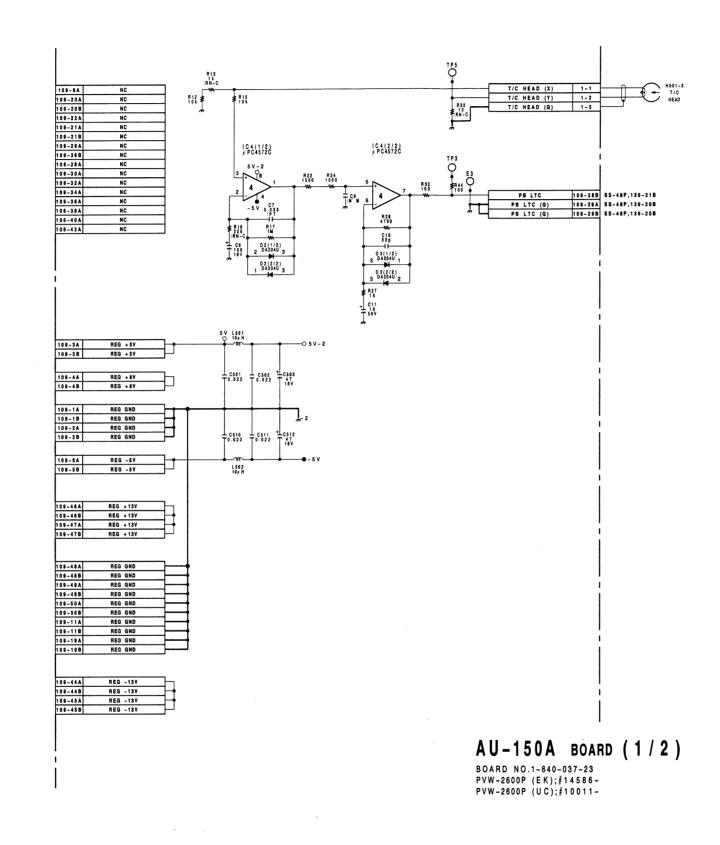
SS-48P,139-23B SS-48P,139-21A

SS-48P,139-22B

SS-48P,139-22A 1

AU-150A(1-640-037-23 TP3 B - 3

AU-150A(1/2);LTC PB

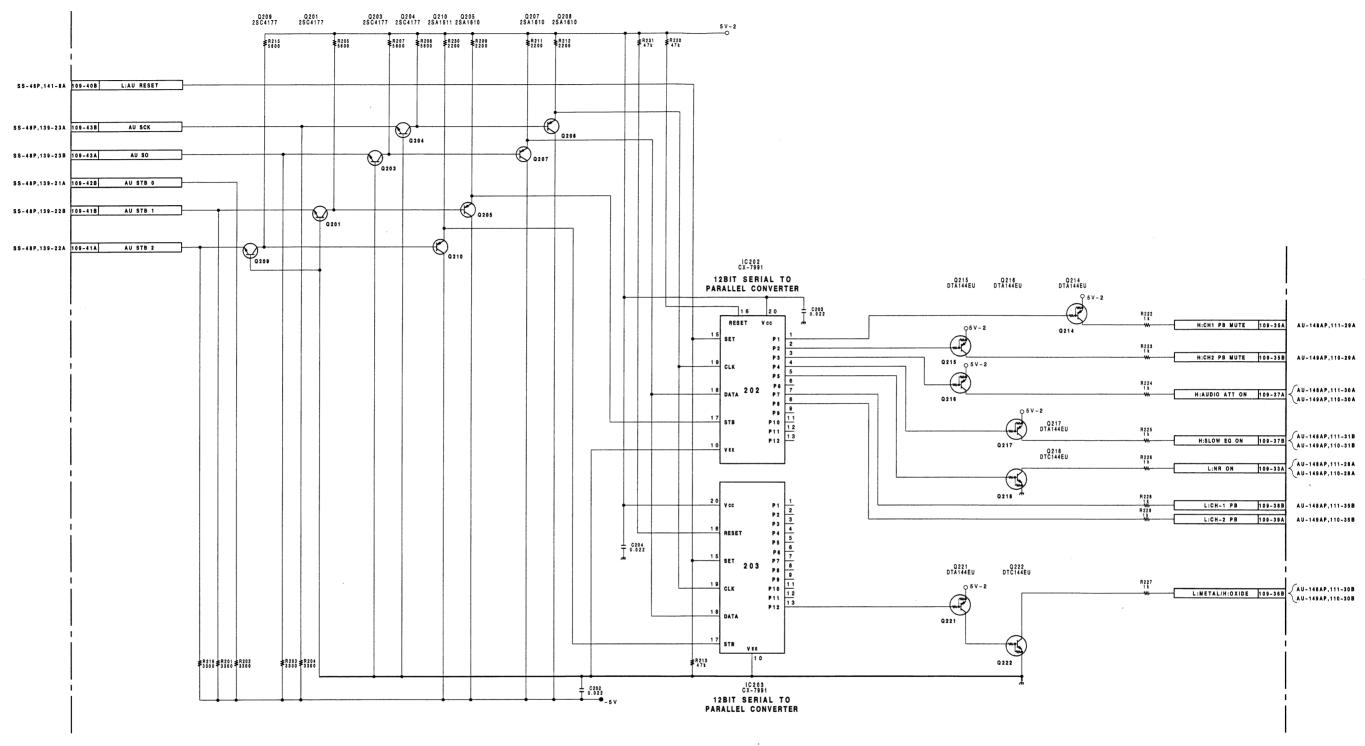


16-24(c)

E

Serial No.(EK);14586 and higher Serial No.(UC);10011 and higher

AU-150A(2/2); MODE CONTROL



AU-150A BOARD (2/2)

BOARD NO.1-640-037-23 PVW-2600P (EK);#14586-PVW-2600P (UC);#10011-

16-24(c)

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AU-150/

SS-48P.141-

SS-48P,139-2

SS-48P,139-2

SS-48P.139-2

SS-48P,139-2

AU-150A(1/2);LTC PB

AU-150A(1-640-037-22)

B - 2

TP2 TP3 TP5 A - 3 B - 3

> Q7 2SA1610 R12 10k ≢ T/C HEAD (Y) *1 \$\frac{\text{R41}}{104} \quad \text{27} \quad \text{*1} \quad \text{\$\frac{\text{R41}}{104} \quad \text{\$\text{\$\text{\$\text{R41}}} \quad \text{\$\text{\$\text{\$\text{\$\text Q 5 V - 2 2 / 2 H:T/C EQ SLOW * 1 Q8 25 K852 * 1 Q3 25K614 IC4(1/2) # PC4572C IC4(2/2) s PC4572C Q4 2SC4213A T P 3 *1 R42 = D4(2/2) 2/2 L:LTC PB *1 \$ R9 *1 TO.022 109-28B SS-48P.139-21B 109-29A SS-48P,139-20B 109-29B SS-48P,139-20B 0.033 :PT R18 D2(1/2) 2 DA204U 3 DA T0.022 T0.022 T40 REG GND C510 C511 C512 T 0.022 T 0.022 T 16V REG -5Y L502 10# H Q502 2SB1114 Q501 28D1615A + 12V REG REG +13V REG +13V REG +13V C504 + C505 + C513 T 0.022 7 47 7 100 109-22A 109-21A 109-21B 109-26A 109-26B 109-28A 109-30A 109-32A 109-34A 109-36A MARK CHANGE INFORMATION SERIAL NO.
>
> * 1 DELETED EK;S/N 12851-REG GND REG GND 109-15AB 109-16AB REG GND 109-50A 109-17AB 109-18AB REG GND REG GND *1 ≸ 330 *1 ≸ 1/4W :RD REG -13V REG -13V REG -13V Q502 -12V REG

> > AU-150A BOARD (1/2)

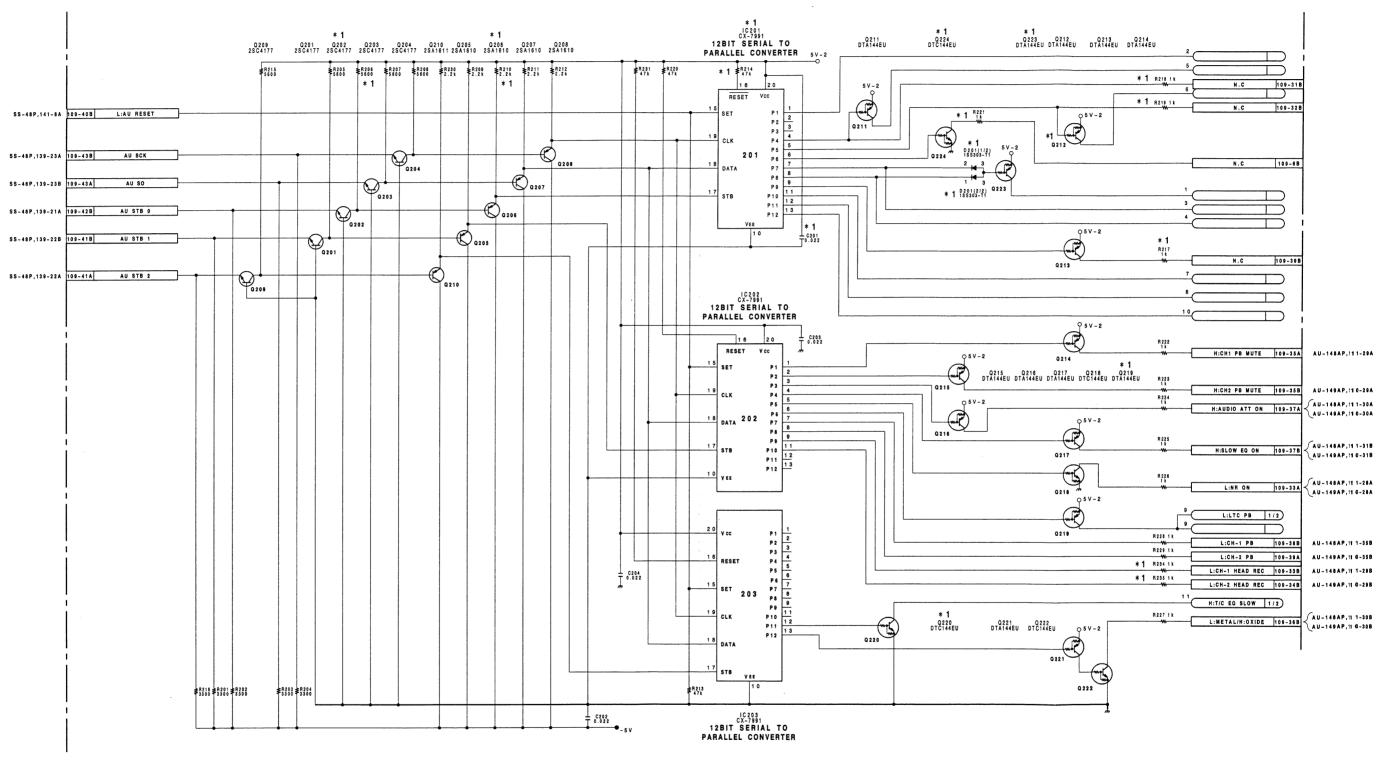
BOARD NO.1-640-037-22 PVW-2600P (EK);#11151-14585 PVW-2600P (UC);#10001-10010

16-24(b)

Ε

Serial No.(EK);11151 to 14585 Serial No.(UC);10001 to 10010

AU-150A(2/2); MODE CONTROL



1'/2)

AU-150A BOARD (2/2)

BOARD NO.1-640-037-22 PVW-2600P (EK);#11151-14585 PVW-2600P (UC);#10001-10010

16 - 24(b)

K L M N O

Serial

SS-48P,141-8A 109-

SS-48P,139-23A 109-

SS-48P,139-23B 109-

SS-48P,139-21A 109-

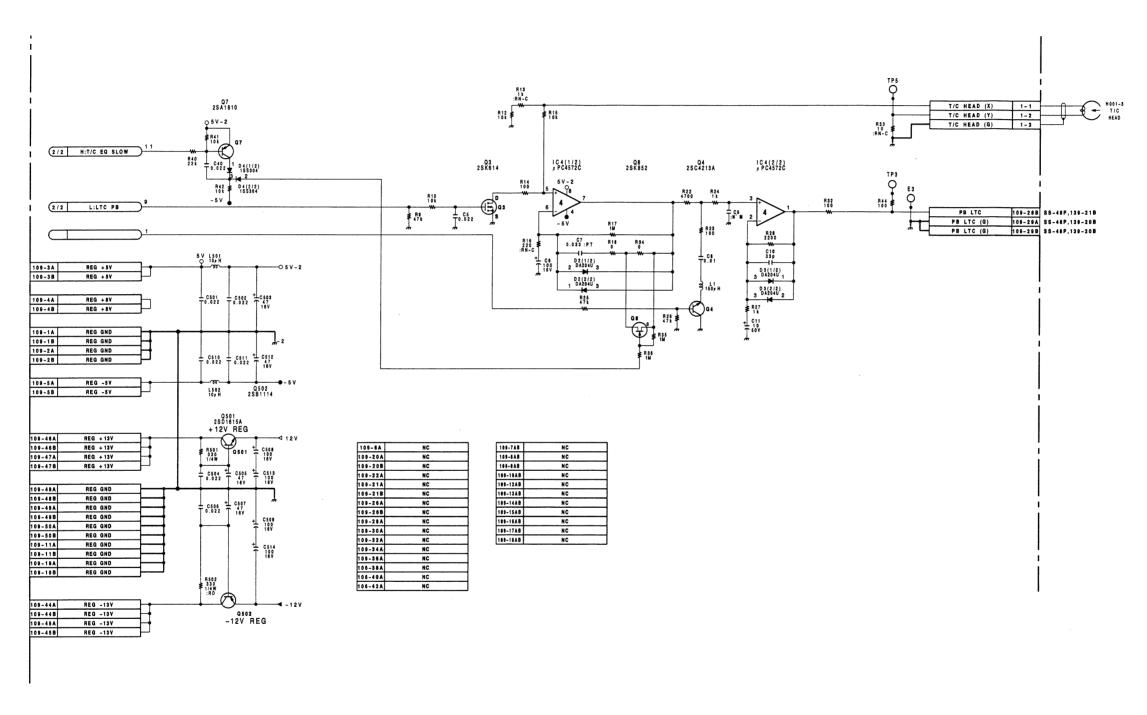
SS-48P,139-22B 109-

SS-48P,139-22A 109-

AU-150A(1/2);LTC PB

A U - 1 5 0 A (1 - 6 4 0 - 0 3 7 - 2 1)

TP3 B-3 TP5 B-2



AU-150A BOARD (1/2)

BOARD NO.1-640-037-21 PVW-2600P (EK);#10001-11150

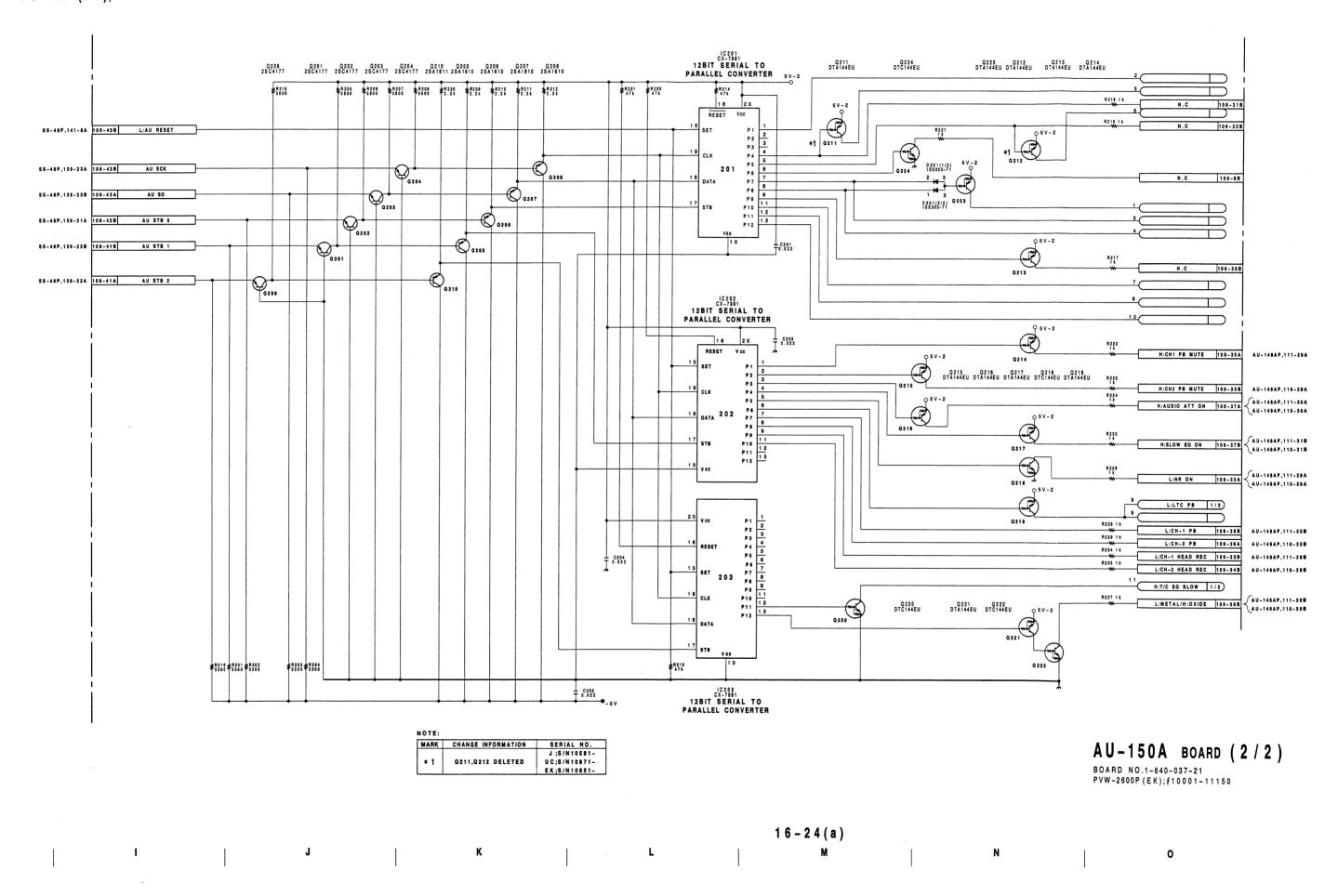
16-24(a)

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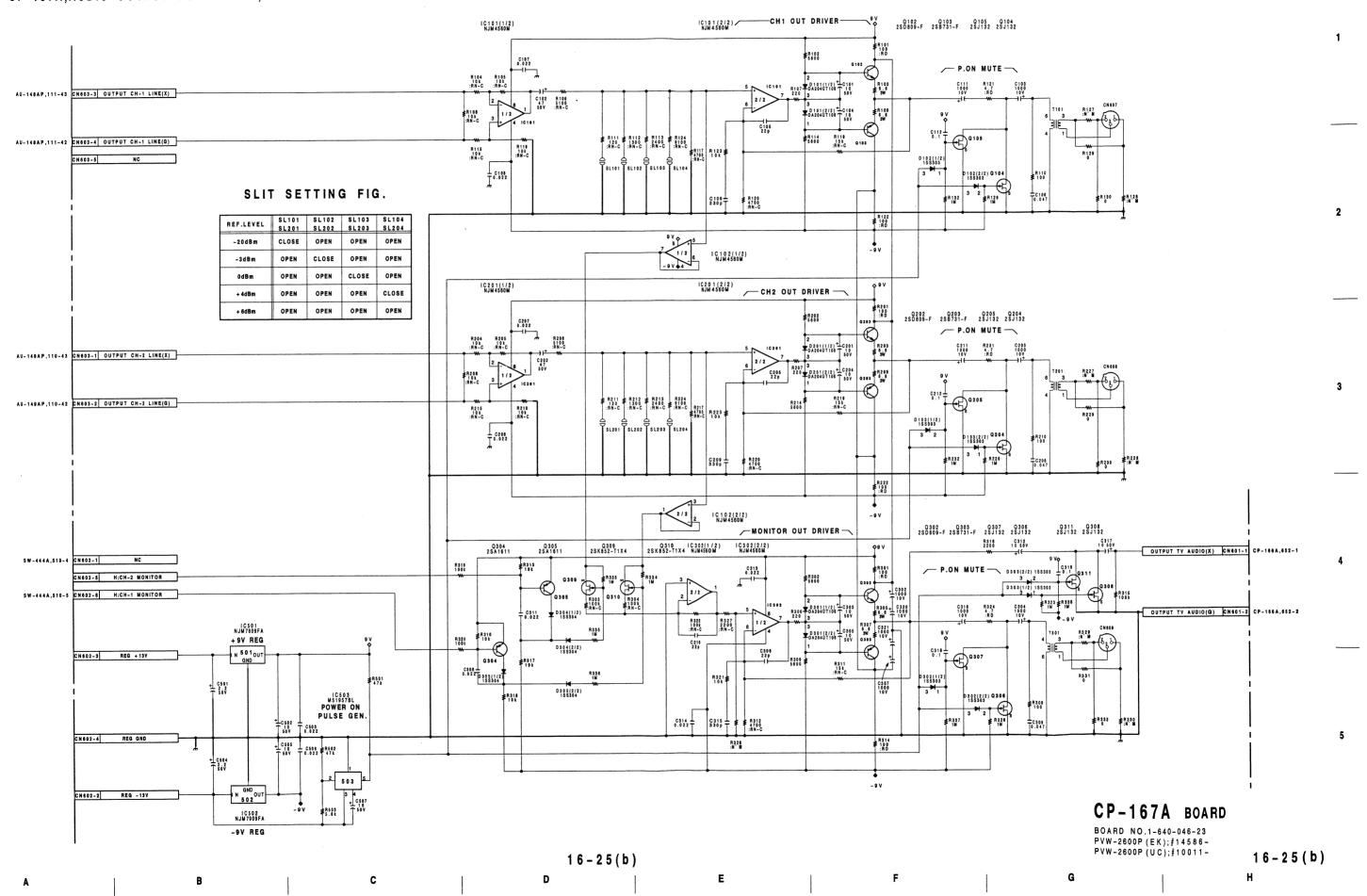
Serial No.(EK);10001 to 11150

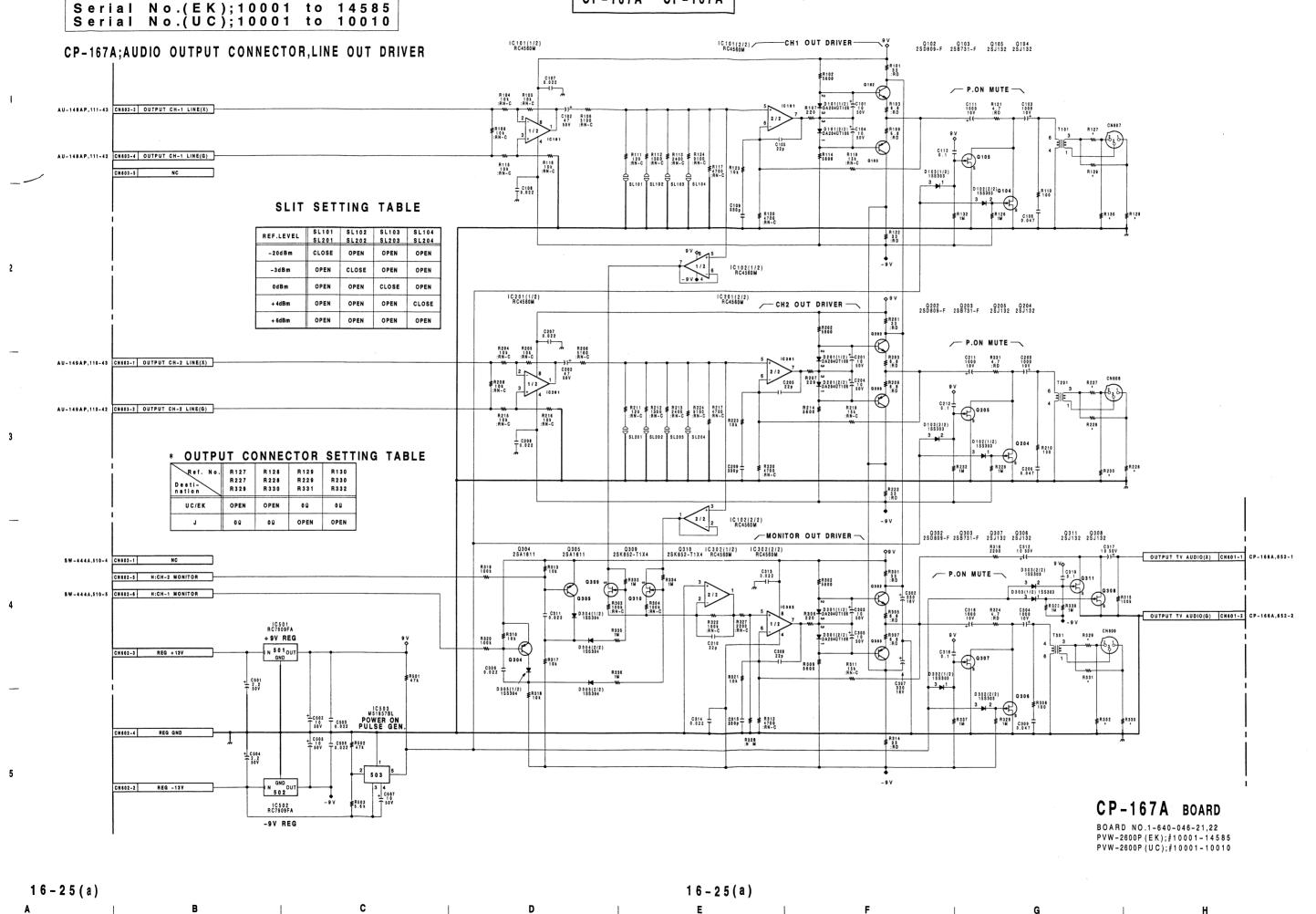
AU-150A(2/2); MODE CONTROL



Serial No.(EK);14586 and higher Serial No.(UC);10011 and higher

CP-167A:AUDIO OUTPUT CONNECTOR, LINE OUT DRIVER

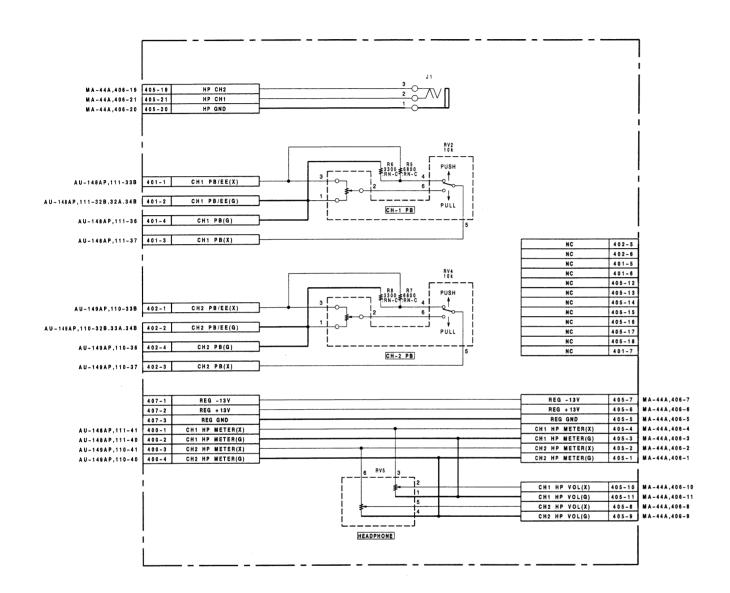




Serial No.(EK);10651 and higher Serial No.(UC);10001 and higher

VR-116A:AUDIO PB LEVEL CONTROL, HEADPHONE VOLUME CONTROL

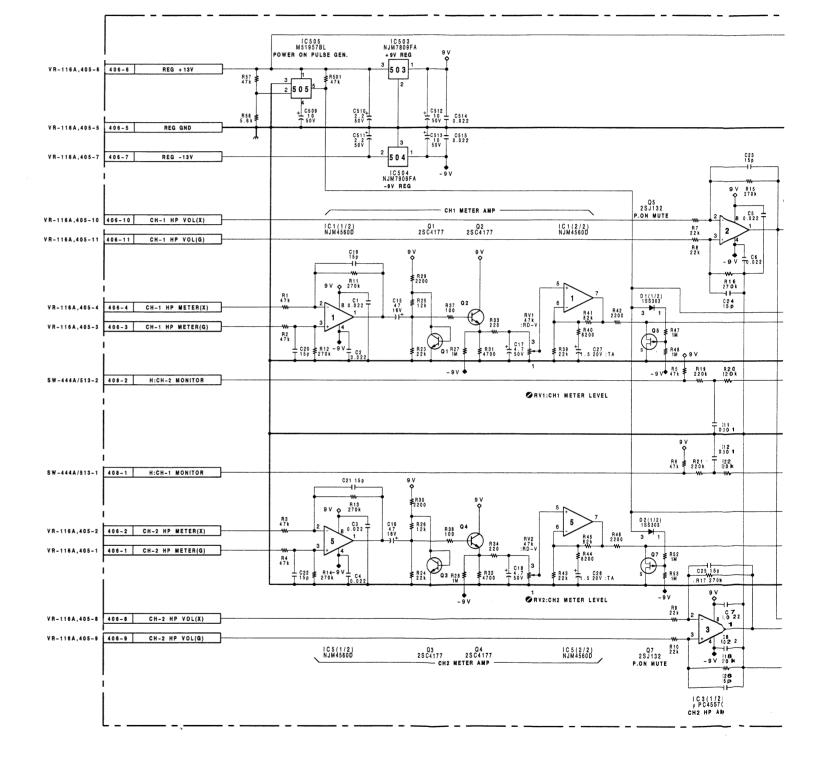
MA-44A; AUDIO METER DRIVER, HEADPHONE AMPLIFIER



VR-116A BOARD

16-26(b)

BOARD NO.1-640-039-21 PVW-2600P (EK);#10001-PVW-2600P (UC);#10001-



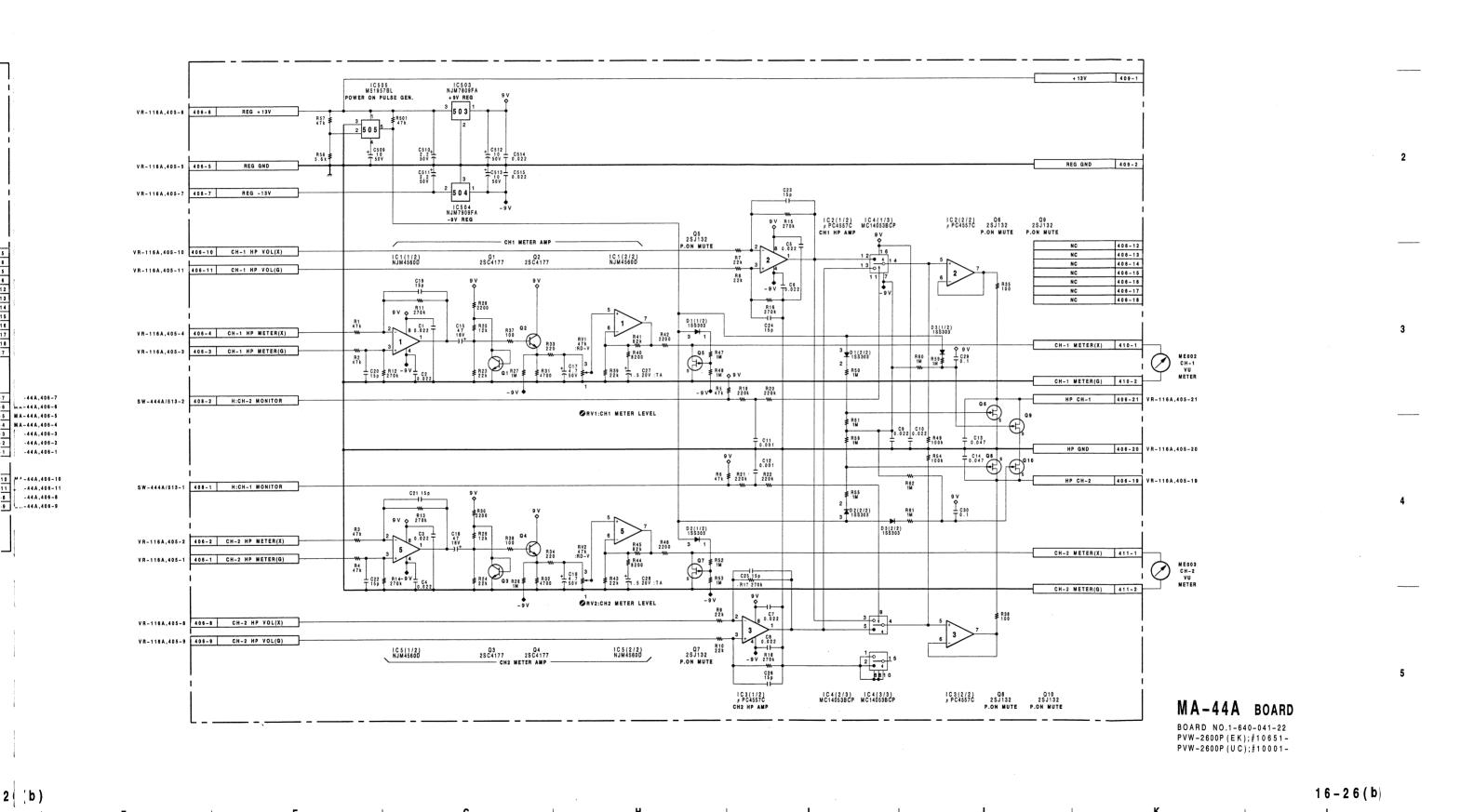
-44A.406-7

MA-44A,406-5 MA-44A,406-4

-44A,406-2

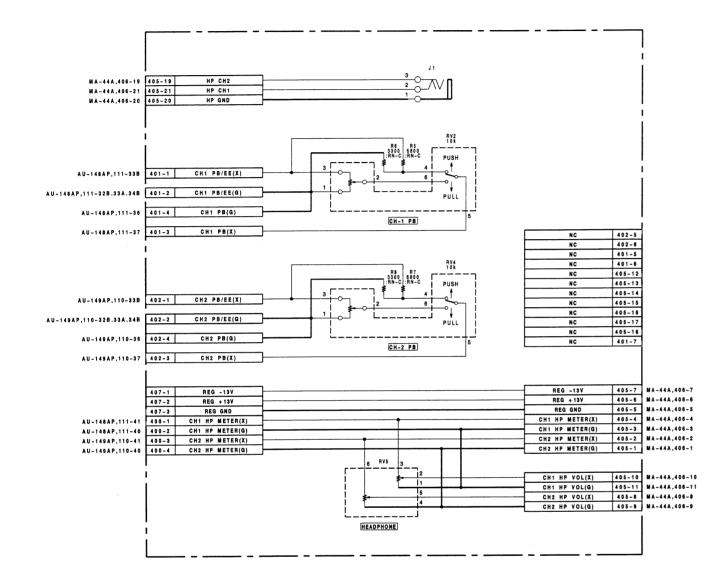
2 (b)

MA-44A; AUDIO METER DRIVER, HEADPHONE AMPLIFIER



Serial No.(EK);10001 to 10650

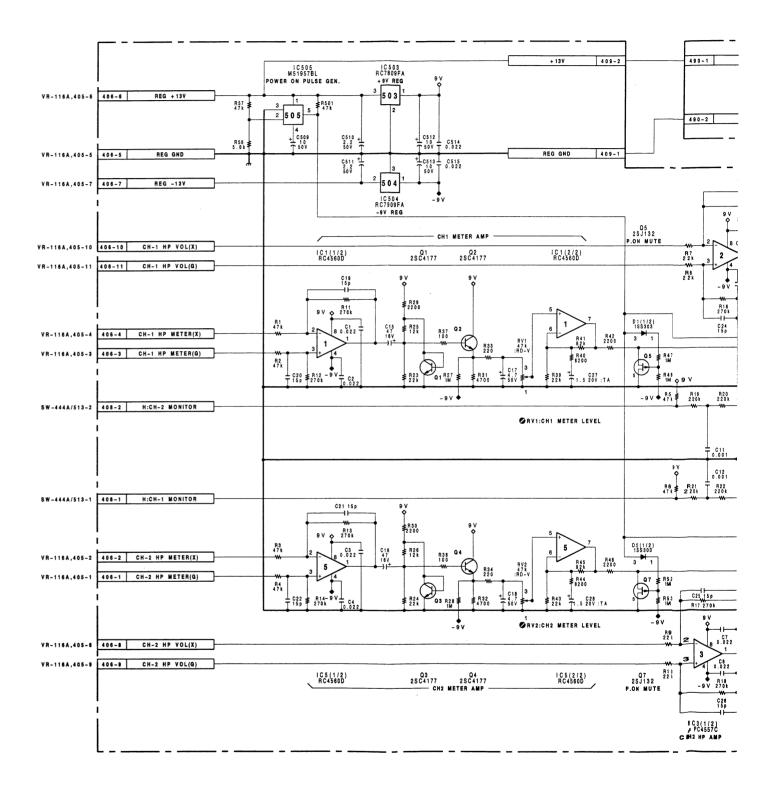
VR-116A:AUDIO PB LEVEL CONTROL, HEADPHONE VOLUME CONTROL



VR-116A BOARD

BOARD NO.1-640-039-21 PVW-2600P(EK); #10001-

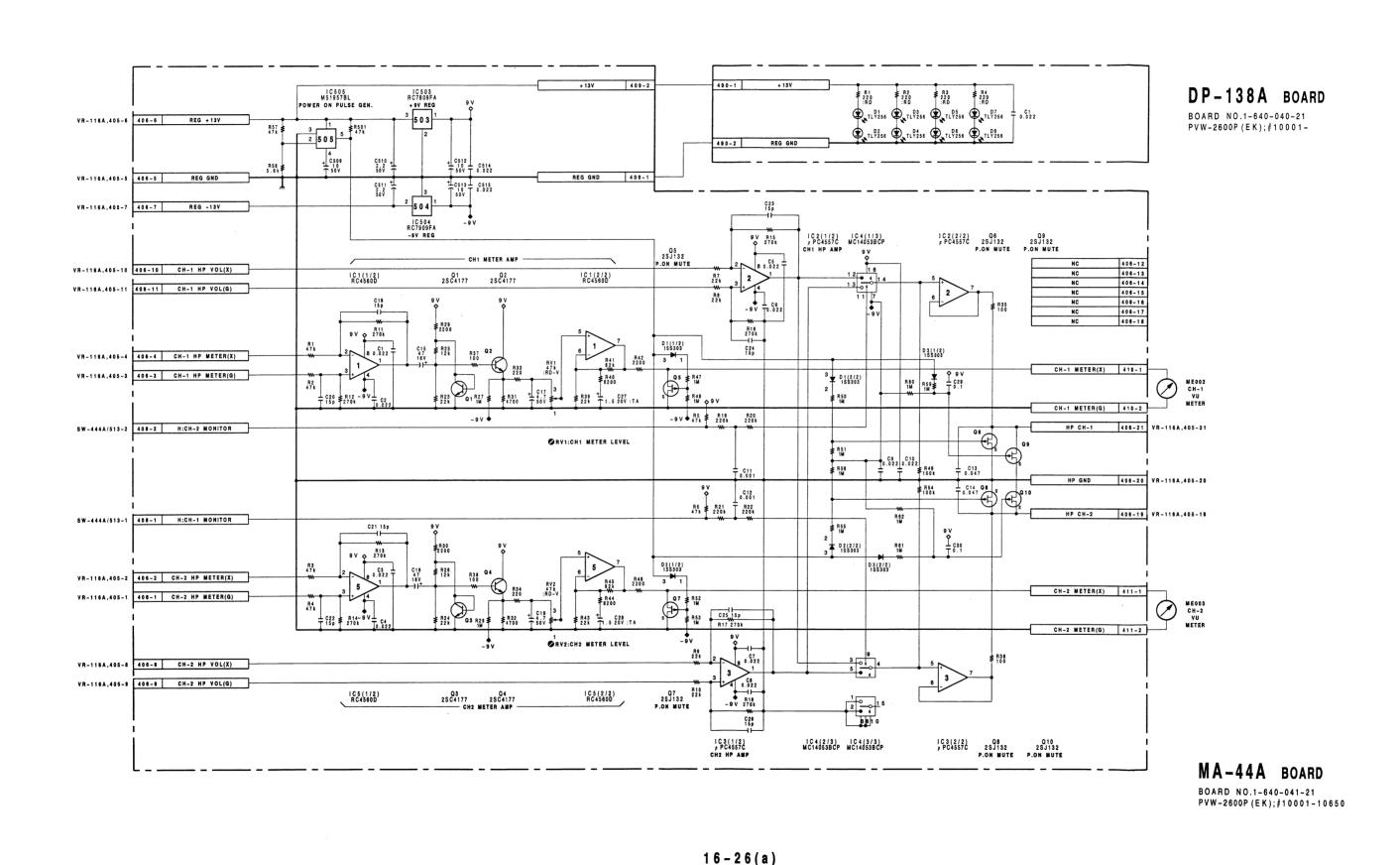
MA-44A; AUDIO METER DRIVER, HEADPHONE AMPLIFIER DP-138A:AUDIO LEVEL METER BACK LIGHT



16-26(;

16-26(a)

MA-44A; AUDIO METER DRIVER, HEADPHONE AMPLIFIER DP-138A; AUDIO LEVEL METER BACK LIGHT



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MA-4,406-7 MA-4,406-6 MA-4,406-5

MA-44A,406-3 MA-4,406-2

MA-, ,406-1

MA-44A,406-10

MA-44A,406-11

MA- ,406-8

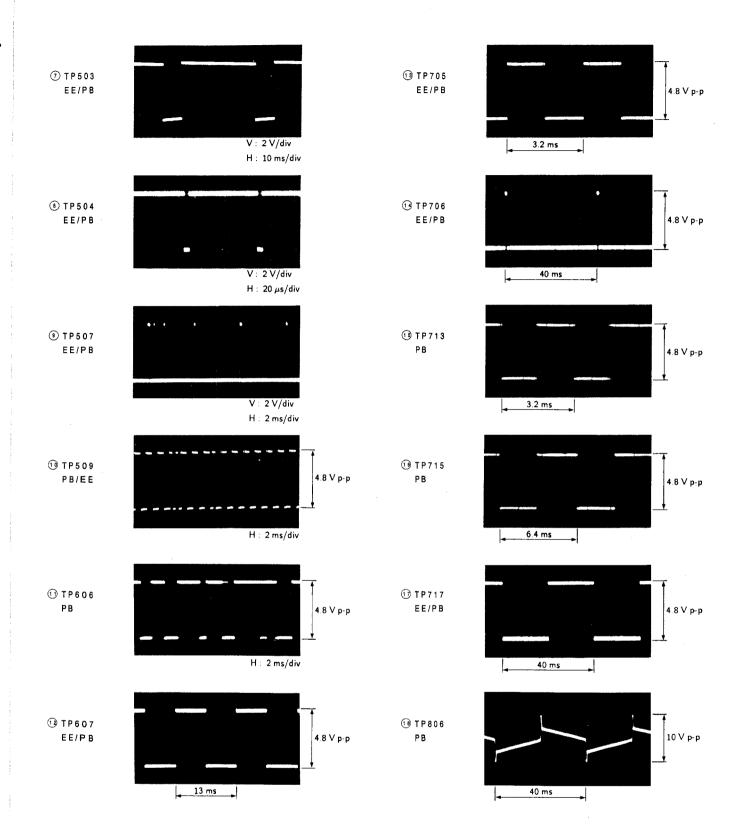
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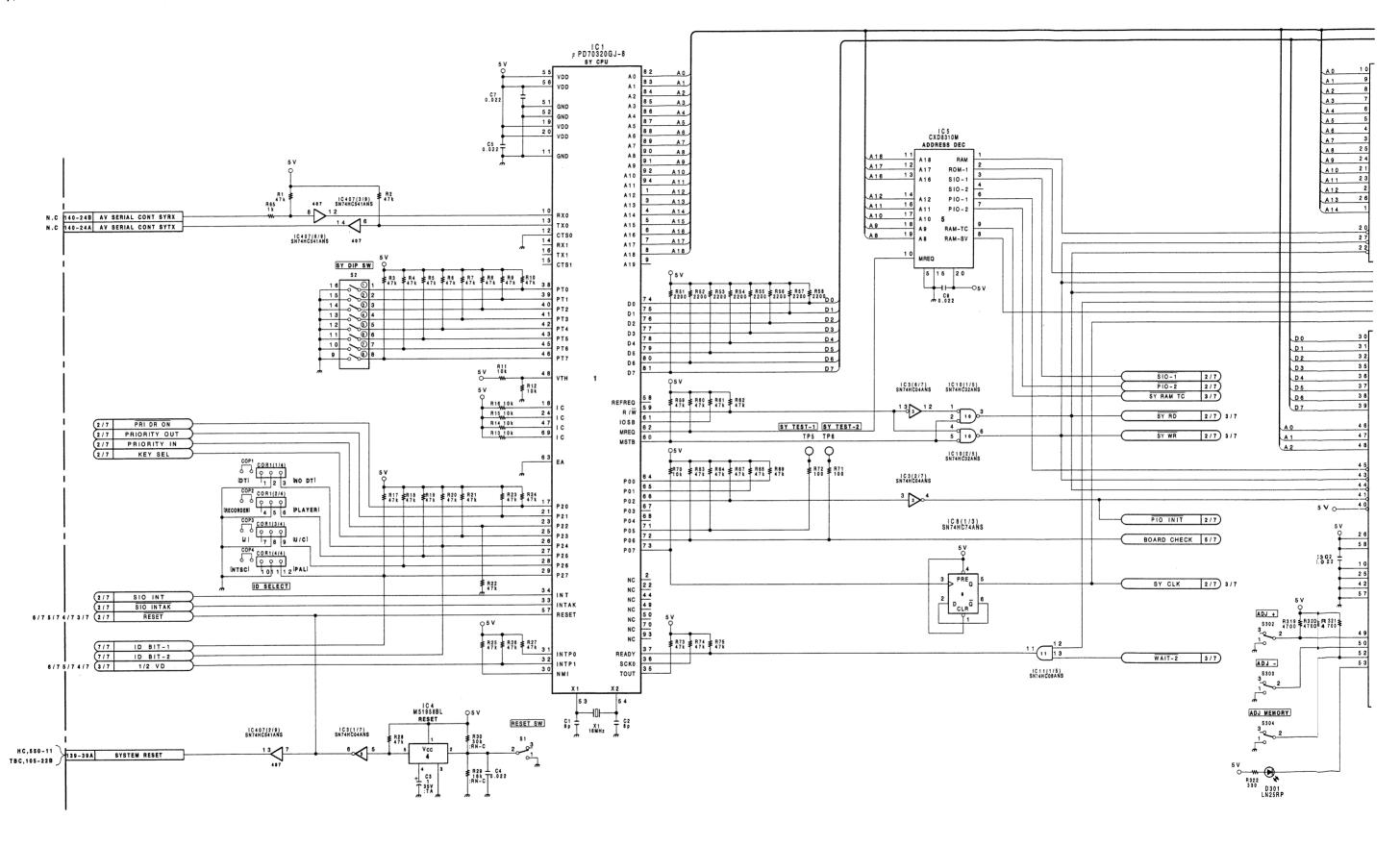
approximation and an approximation and a second a second and a second

SS-48P(1-640-029-13) TP6 TP401 TP408 TP708 TP717 TP801 TP802 TP806 R-2 J-1 J-1 C-1 E-1 F-7 G-7 D-1 ① TP104 EE/PB V: 2 V/div H: 5 ms/div ② TP105 EE/PB V: 2V/div H: 5 ms/div ③ TP404 EE/PB V: 1 V/div $H: 200~\mu s/div$ earlytesicas minimum — silvision bhiilliniiii **4** TP408 PΒ V : 2 V/div H: 10 ms/div **⑤** TP501 EE/PB V: 2V/div $H: 20 \mu s/div$ **6** TP502 EE/PB V : 2 V/div

H : 20 μs/div



SS-48P(1/7); SY CPU

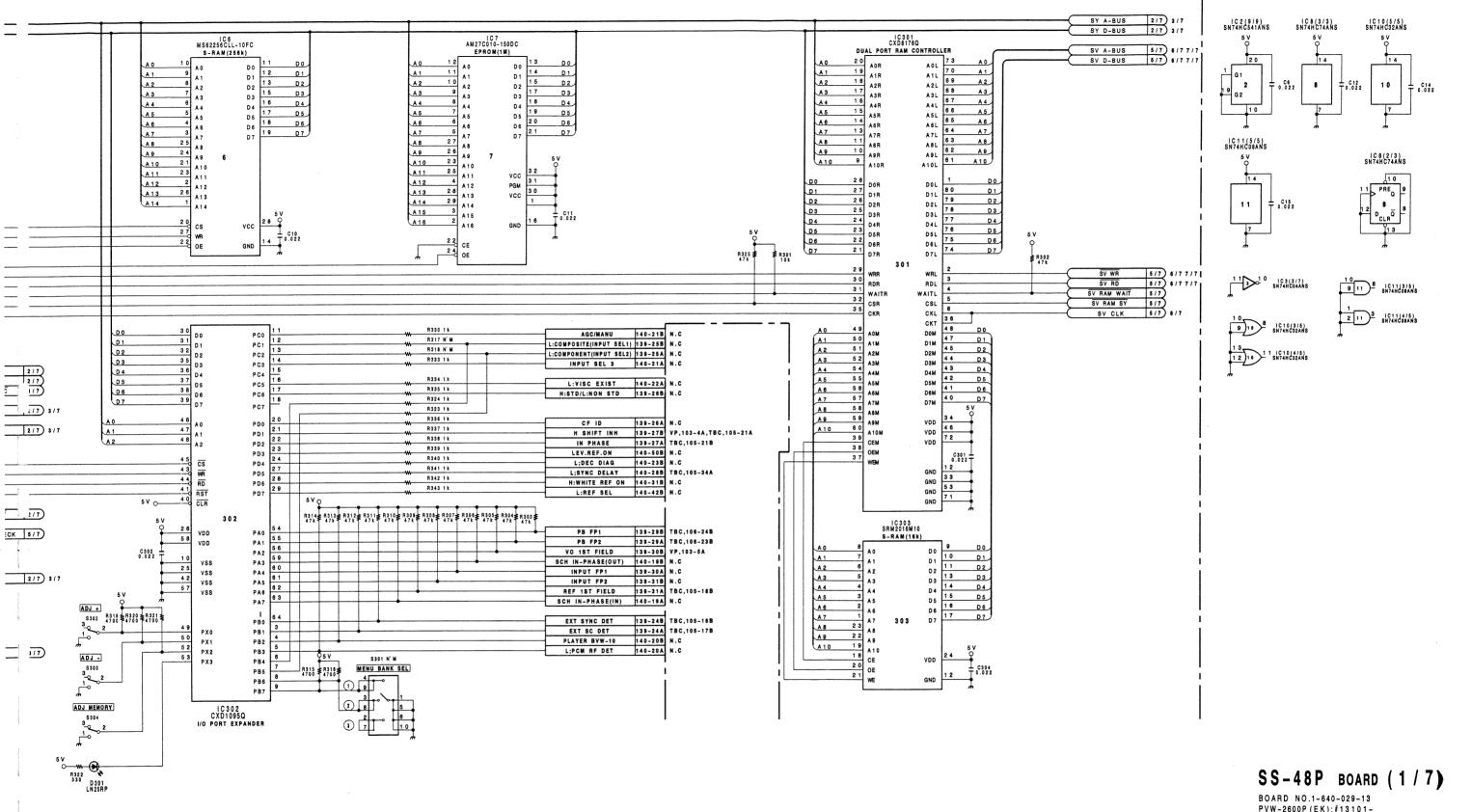


16-29(b)

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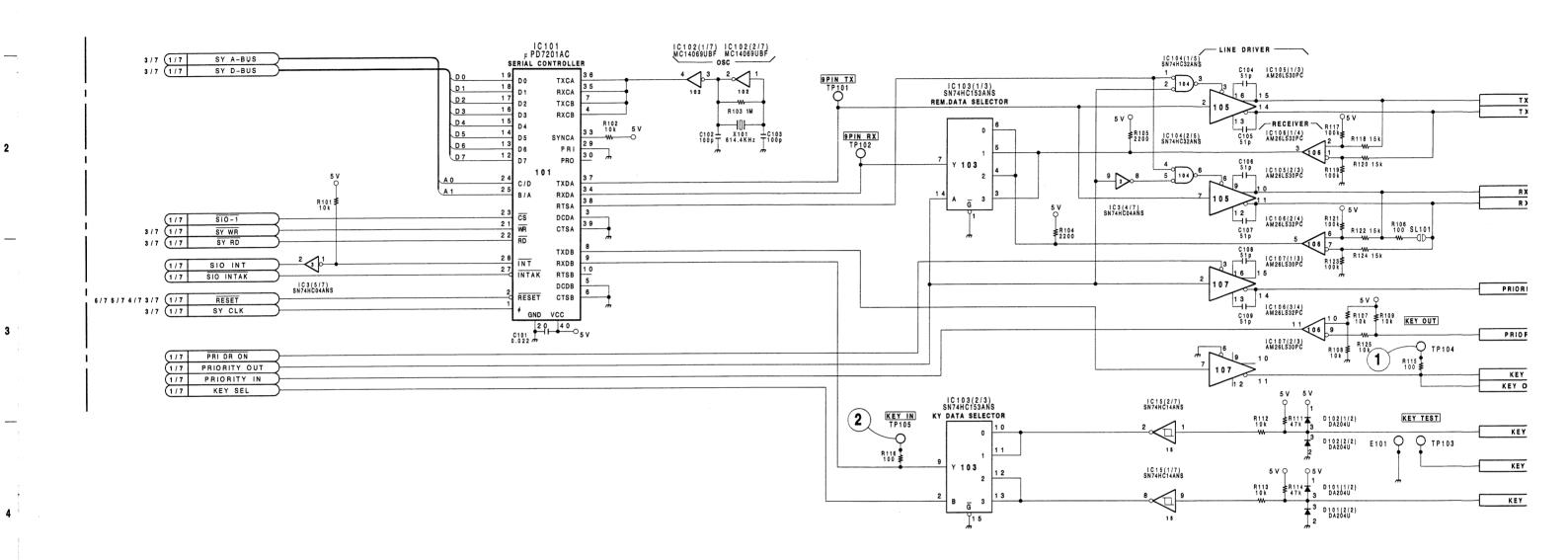
PVW-2600P (EK);#13101-PVW-2600P (UC);#10001-

0

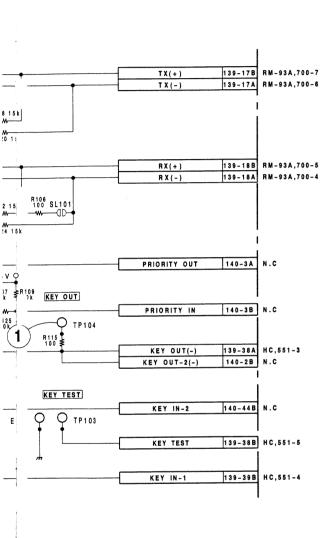
16-19(b)

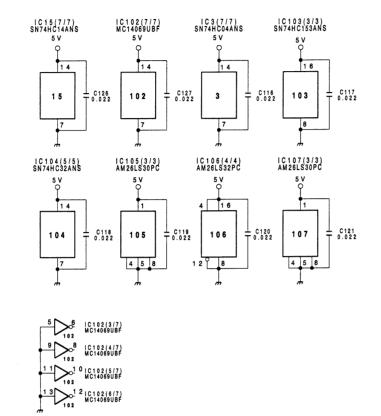
Serial No.(EK);13101 and higher Serial No.(UC);10001 and higher

SS-48P(2/7); KY/REMOTE INTERFACE



16-30(b)



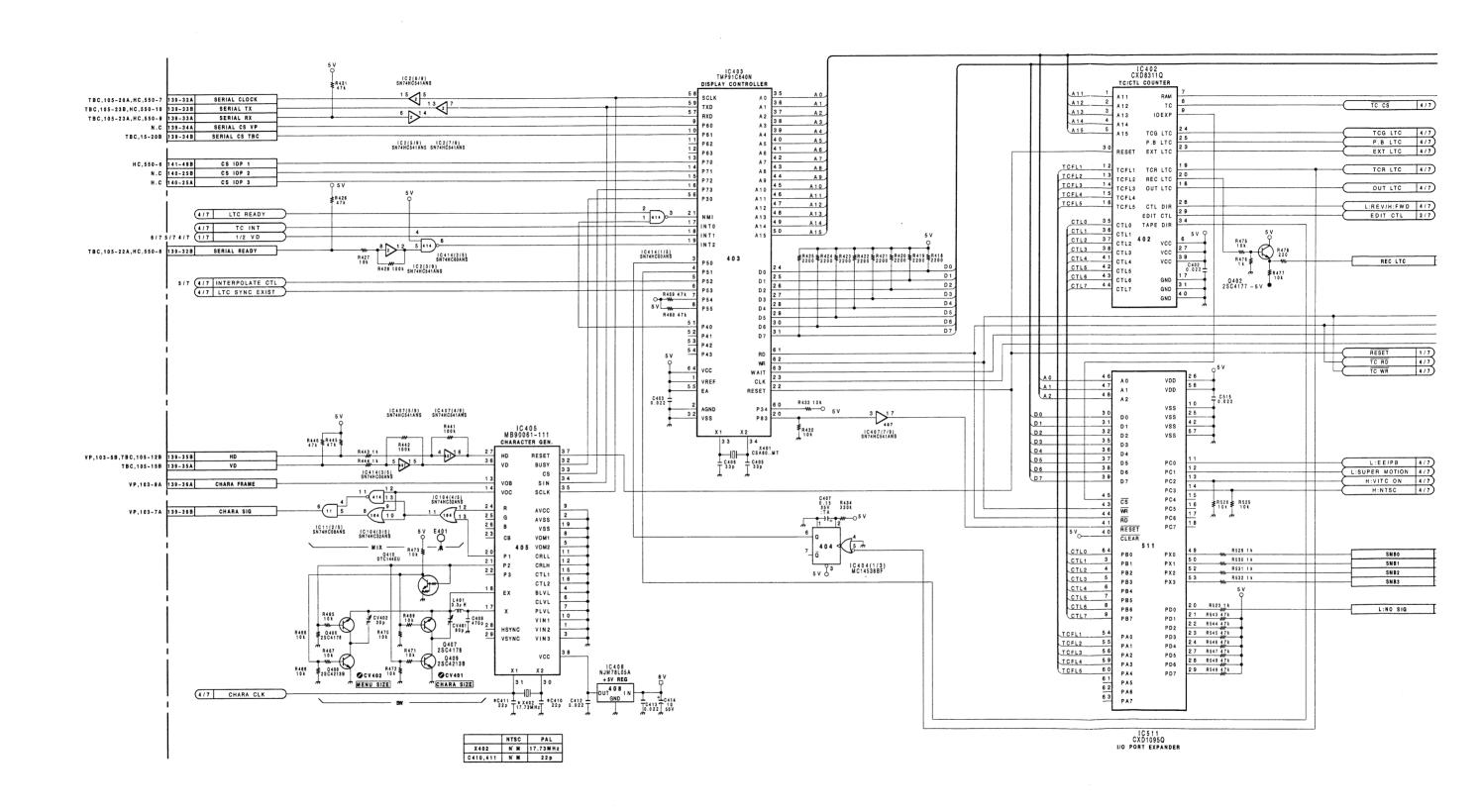


SS-48P BOARD (2/7)
BOARD NO.1-640-029-13

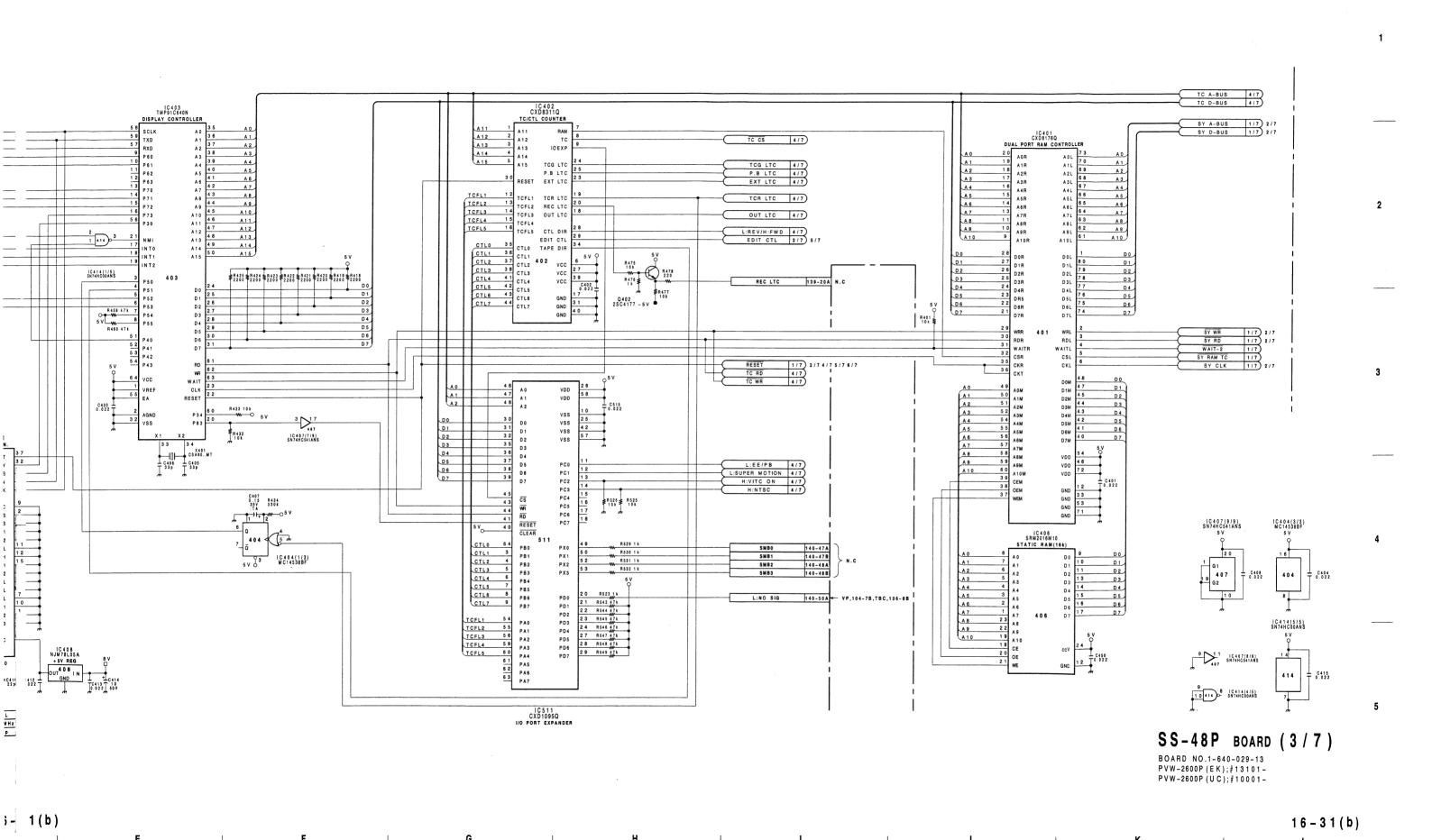
PVW-2600P (EK);#13101-PVW-2600P (UC);#10001-

16-30(b)

SS-48P(3/7); CHARACTER GENERATOR, DISPLAY/RAM CONTROLLER, TC/CTL COUNTER



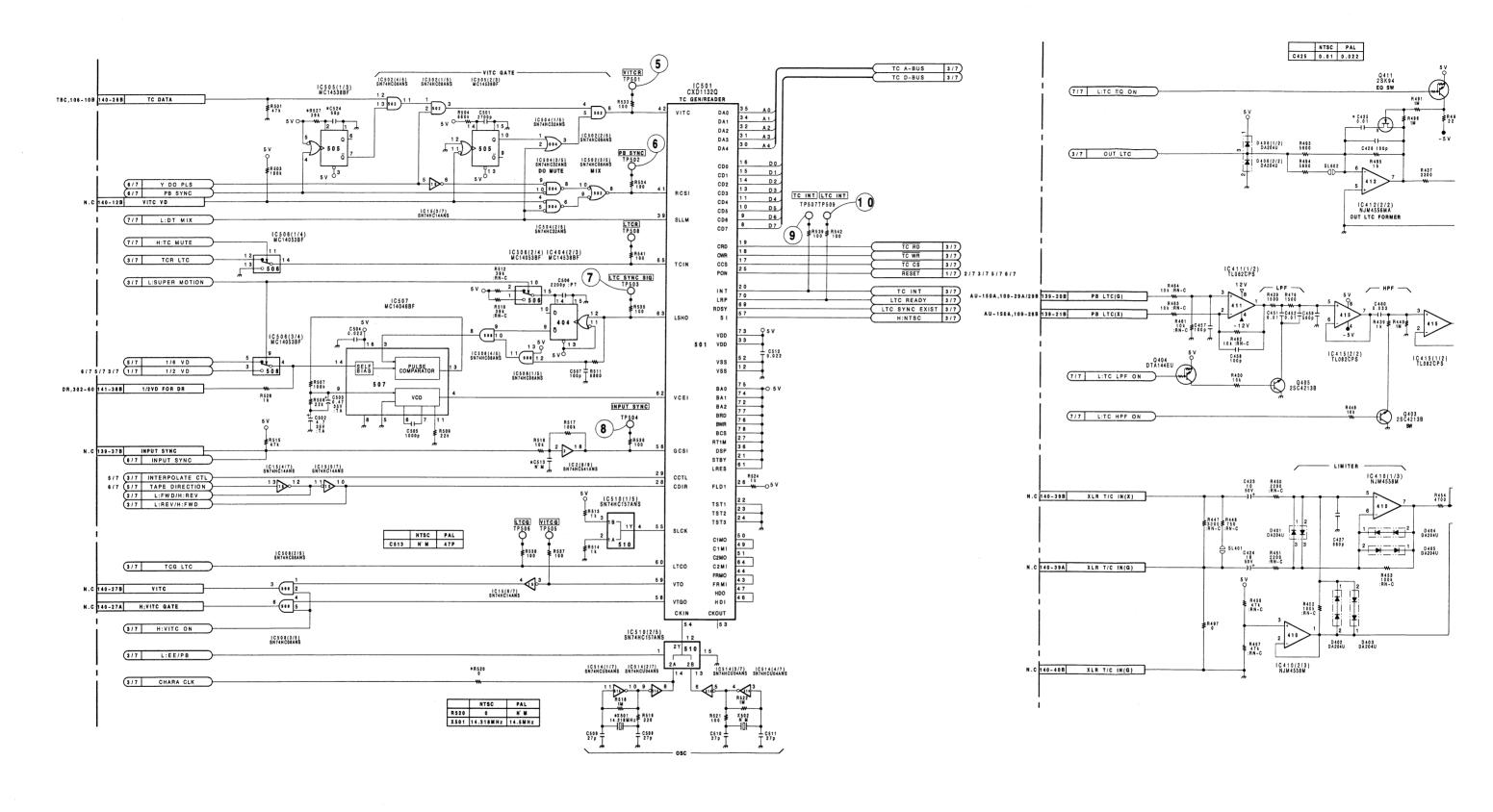
16-31(b) Ε



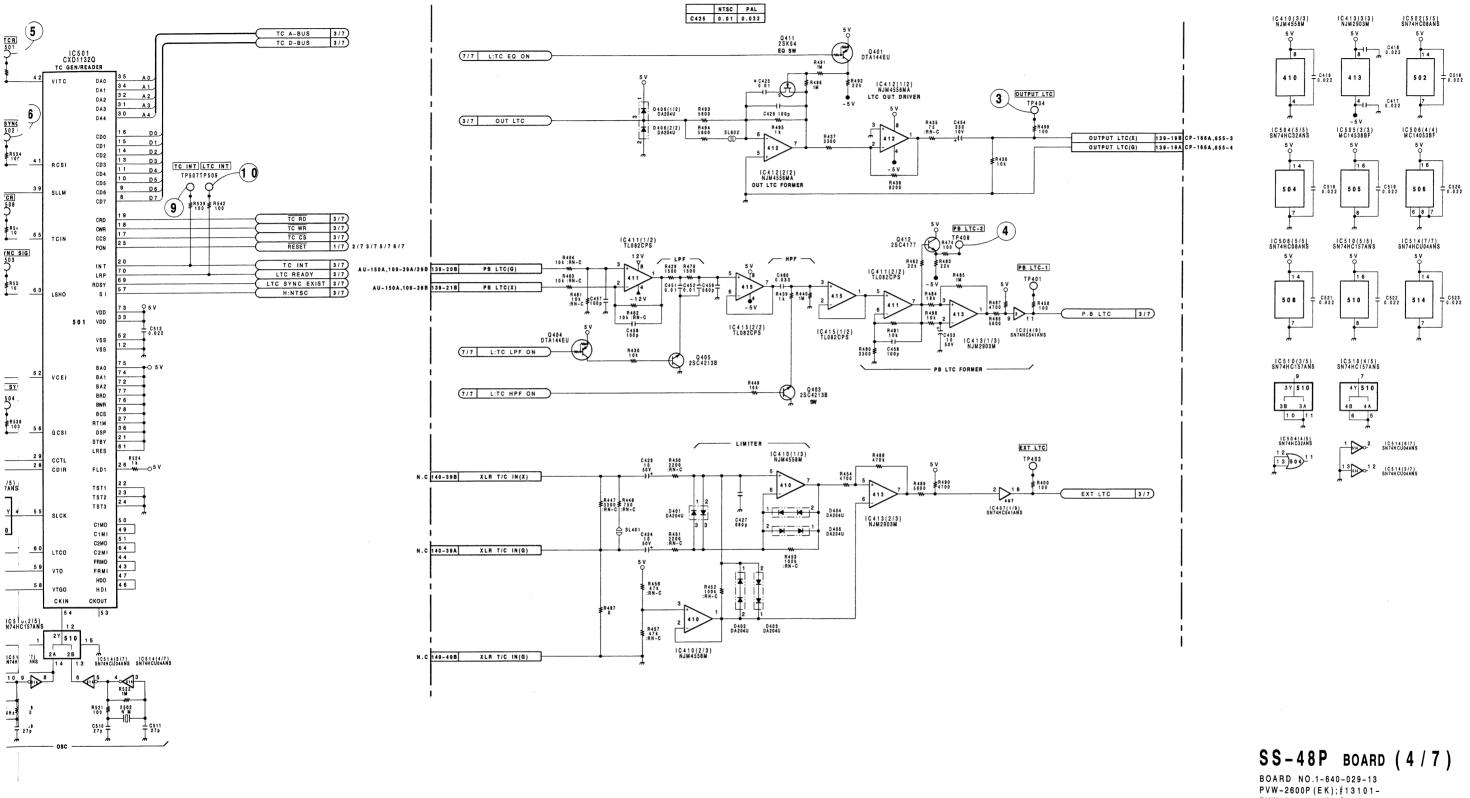
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SS-48P(4/7);TC GEN/READER,LTC FORMER



16-32(b)
A B C D E F G H

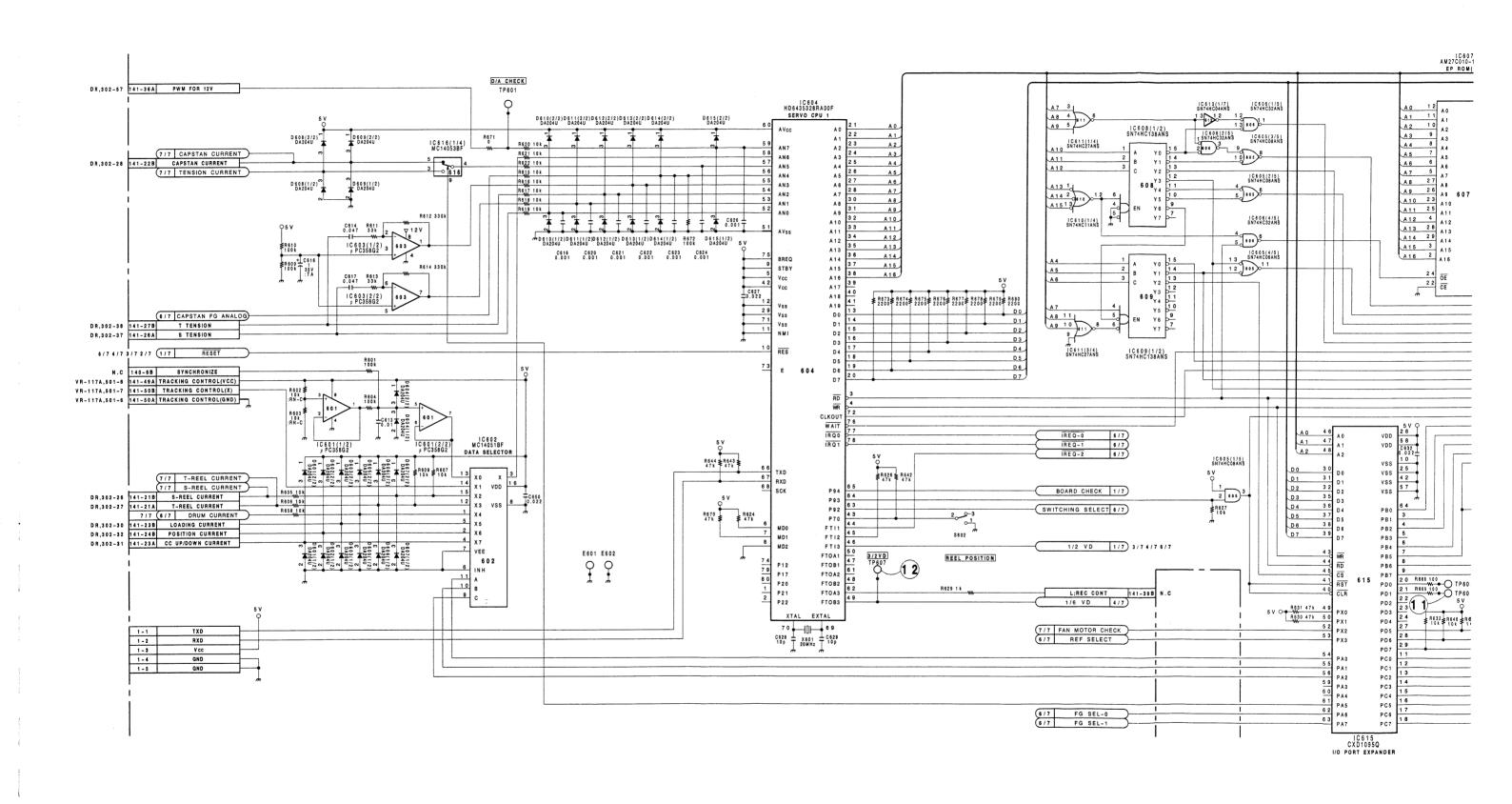


PVW-2600P (UC);#10001-

16-32(b)

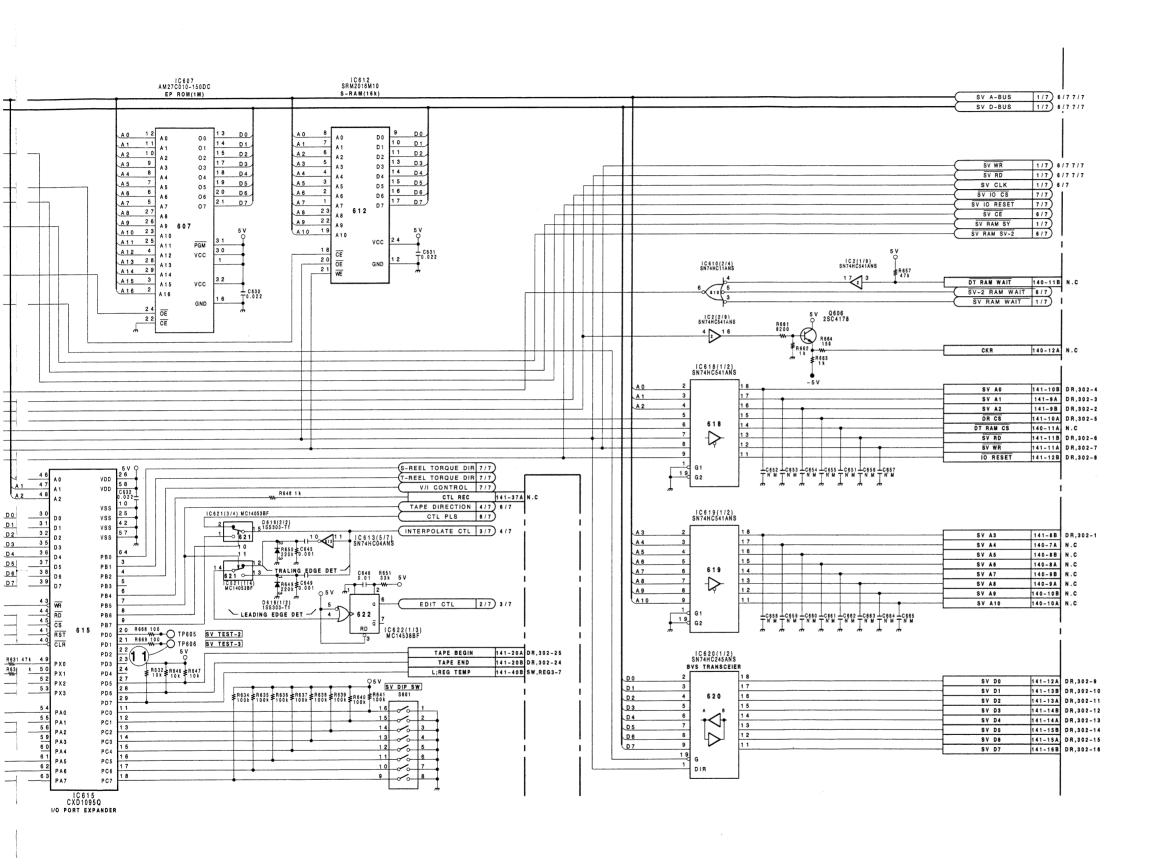
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SS-48P(5/7); SERVO SYSTEM MAIN

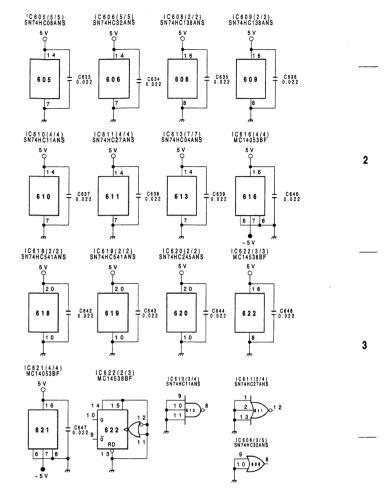


16-33(b) D E F G H

A



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SS-48P BOARD (5/7)

BOARD NO.1-640-029-13 PVW-2600P(EK);#13101-PVW-2600P(UC);#10001-

16-33(b)

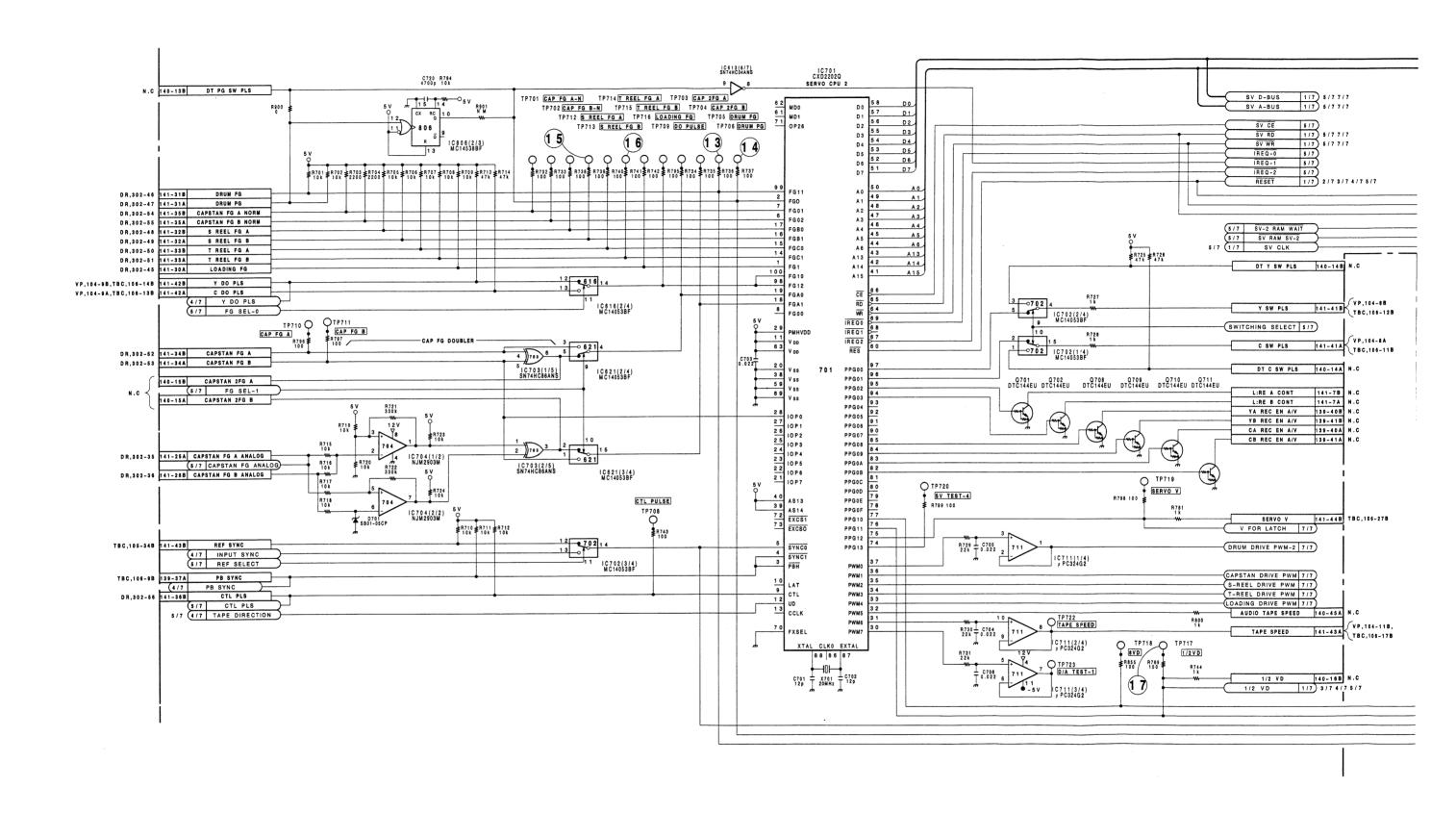
Serial No.(EK);13101 and higher Serial No.(UC);10001 and higher

SS-48P(6/7); SERVO SYSTEM MAIN

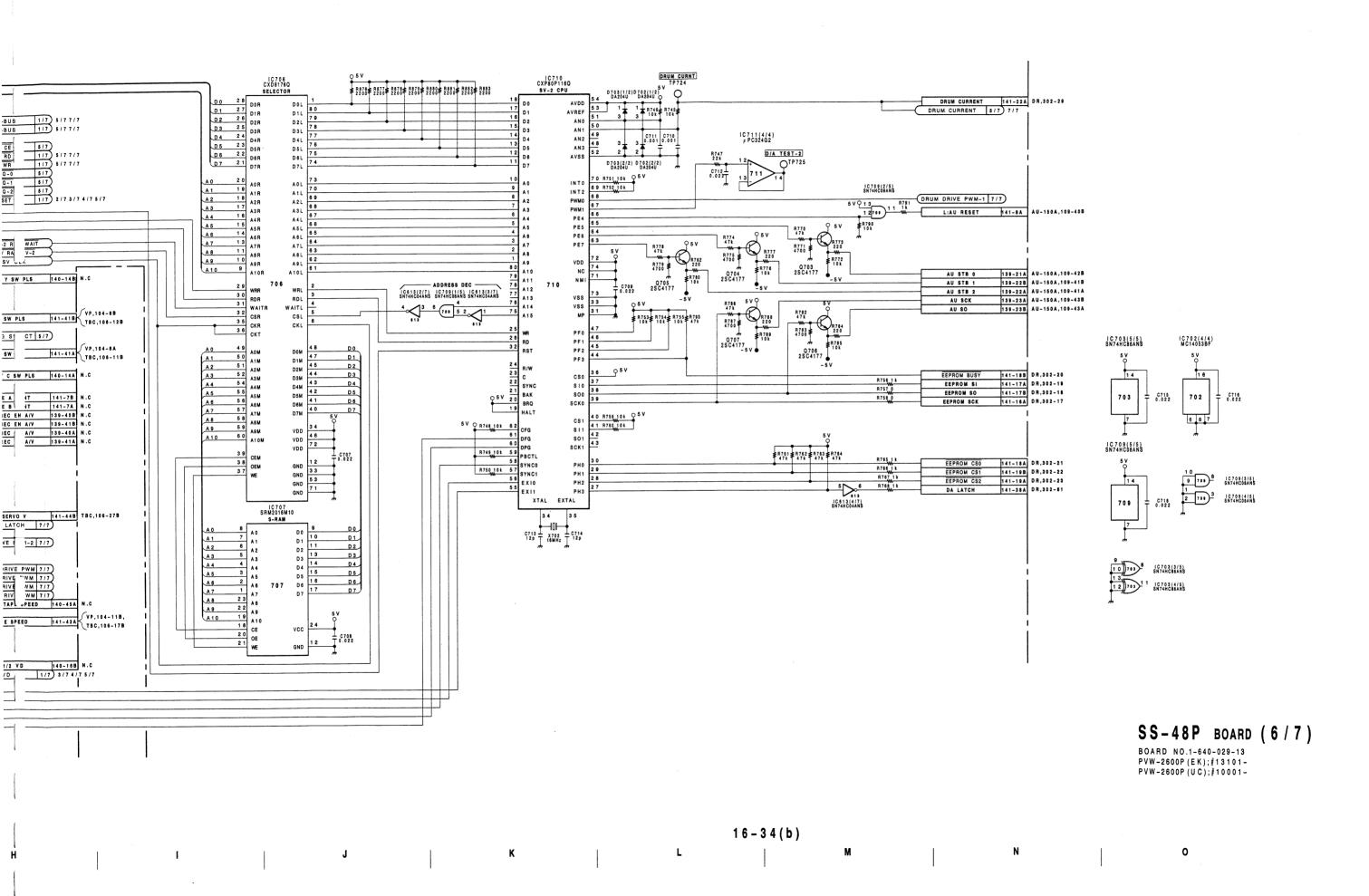
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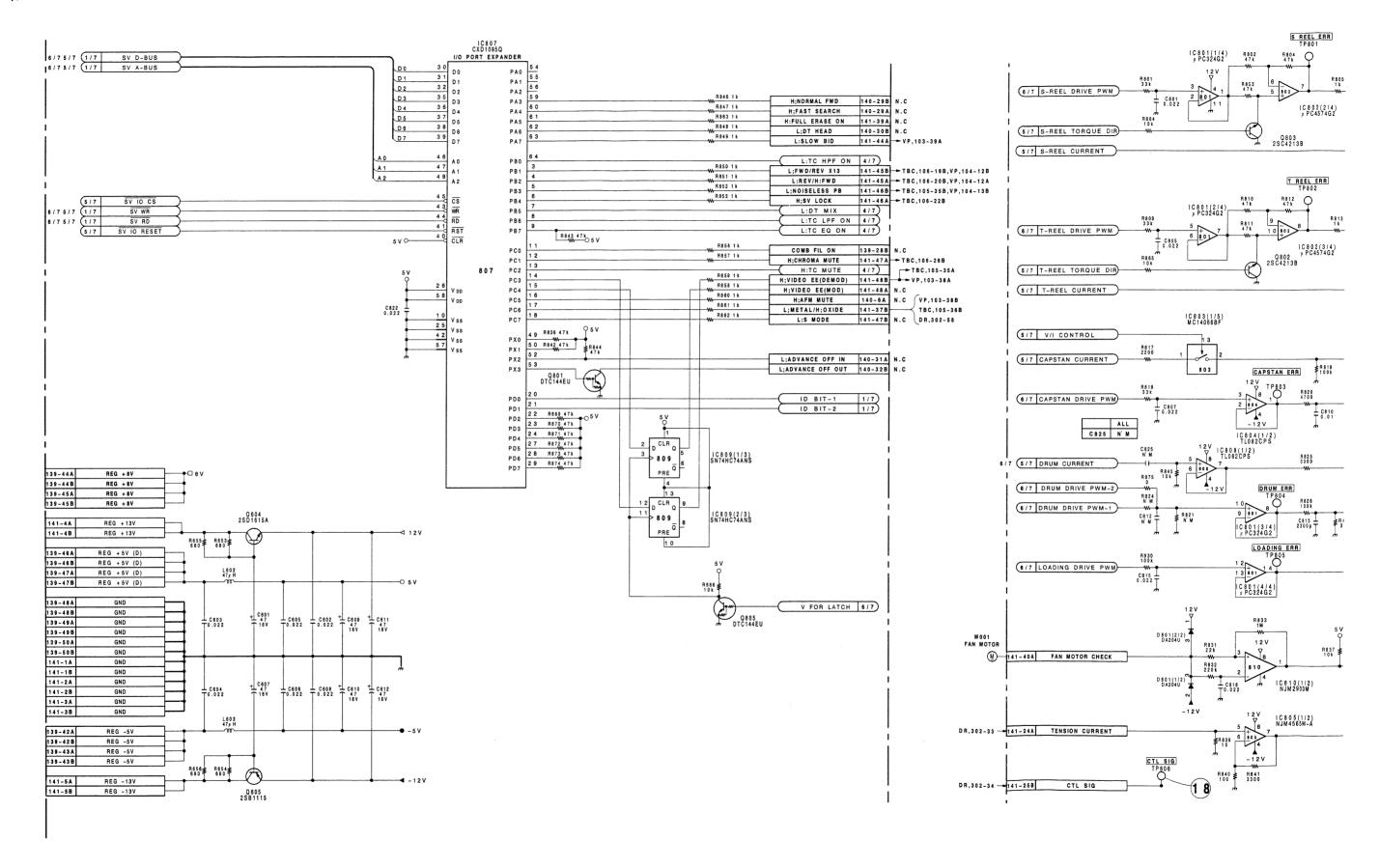
3



16-34(b) A B C D E F G H

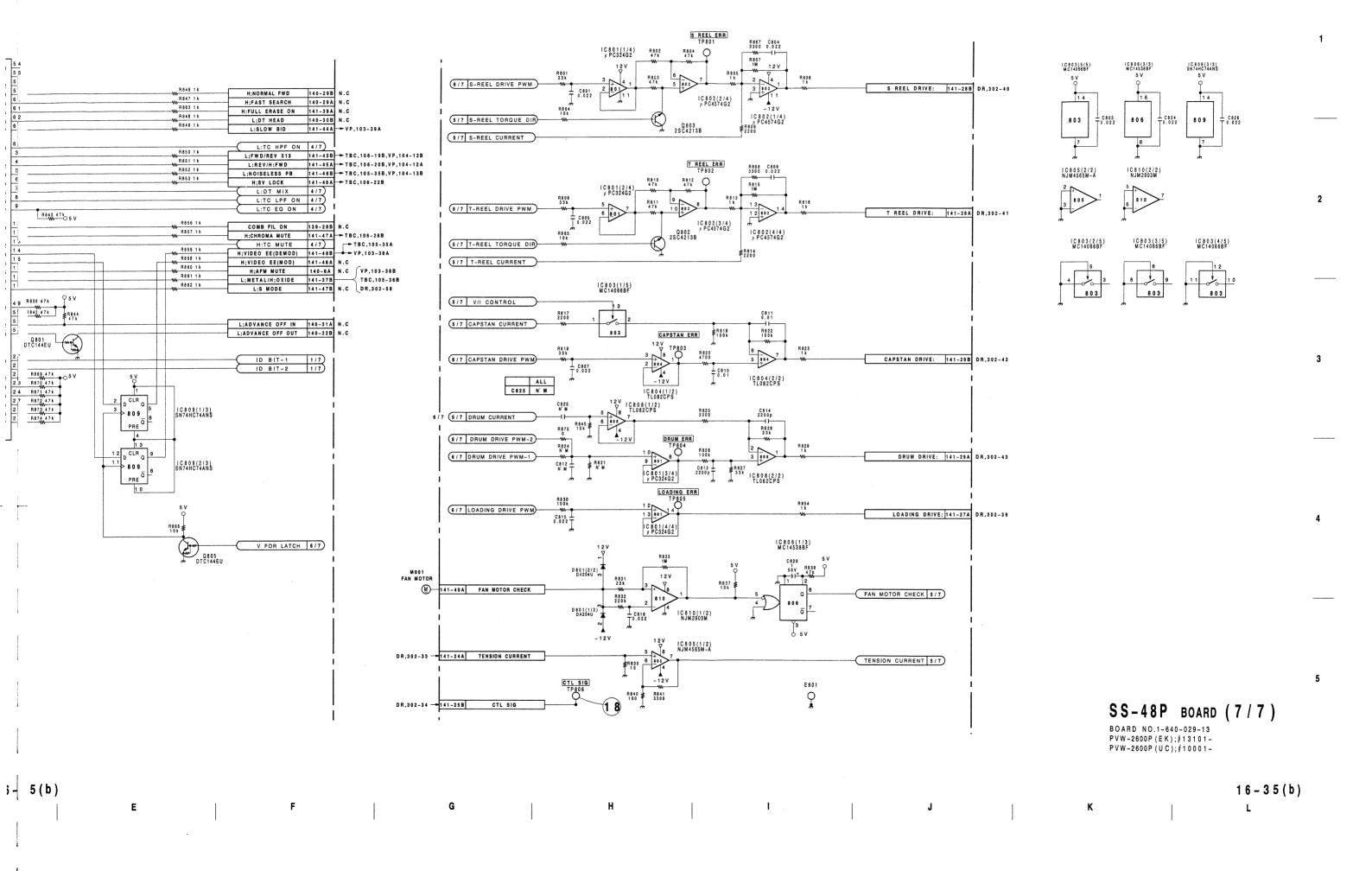


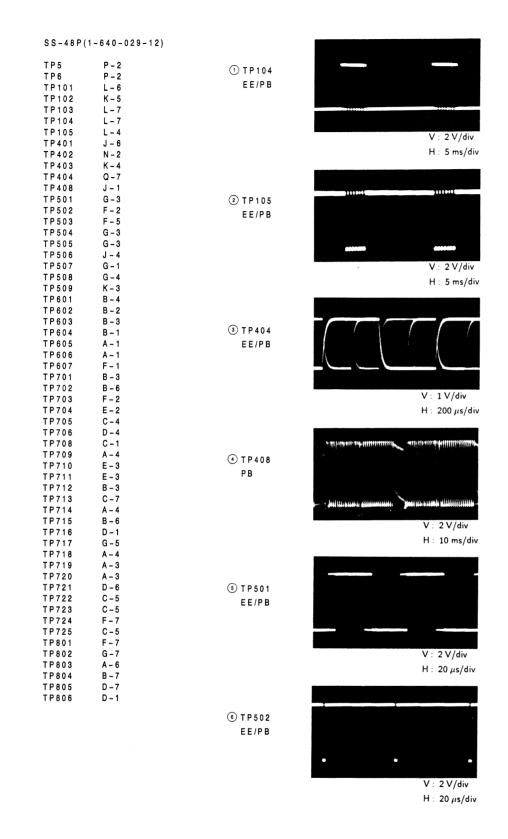
SS-48P(7/7); MOTOR PRE DRIVER, MODE CONTROL

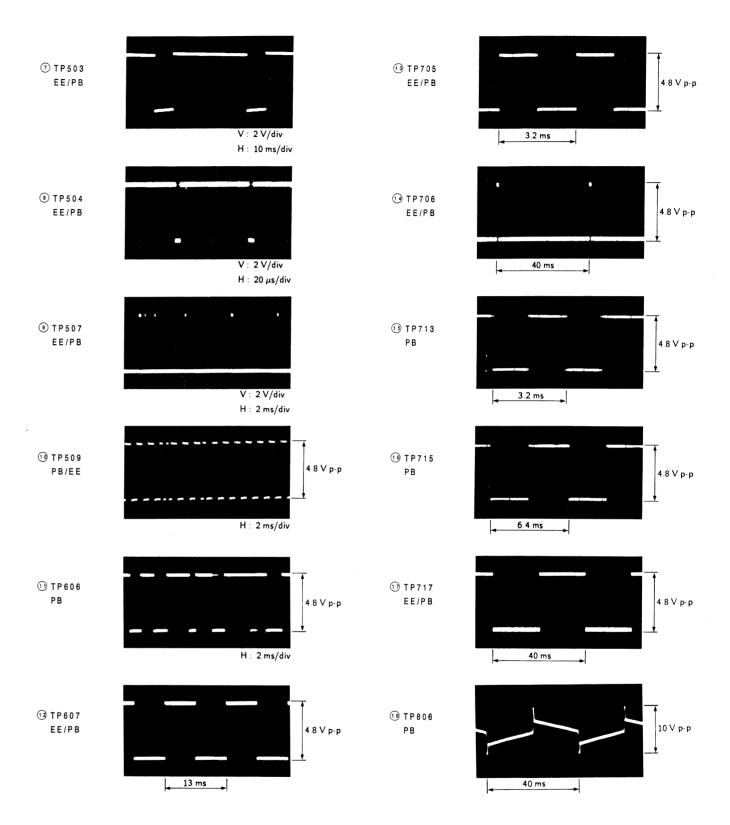


16-35(b) E F G H

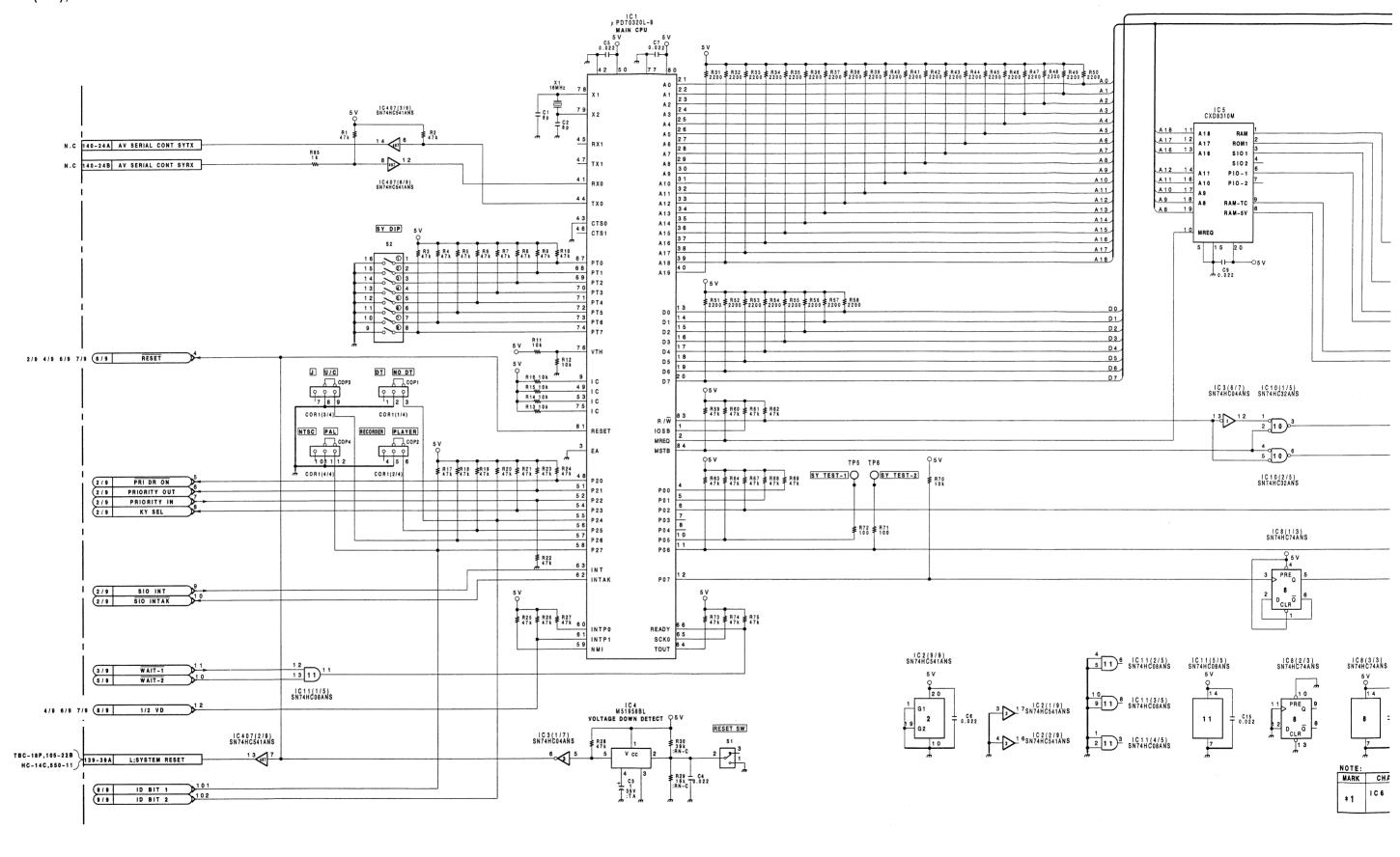
A







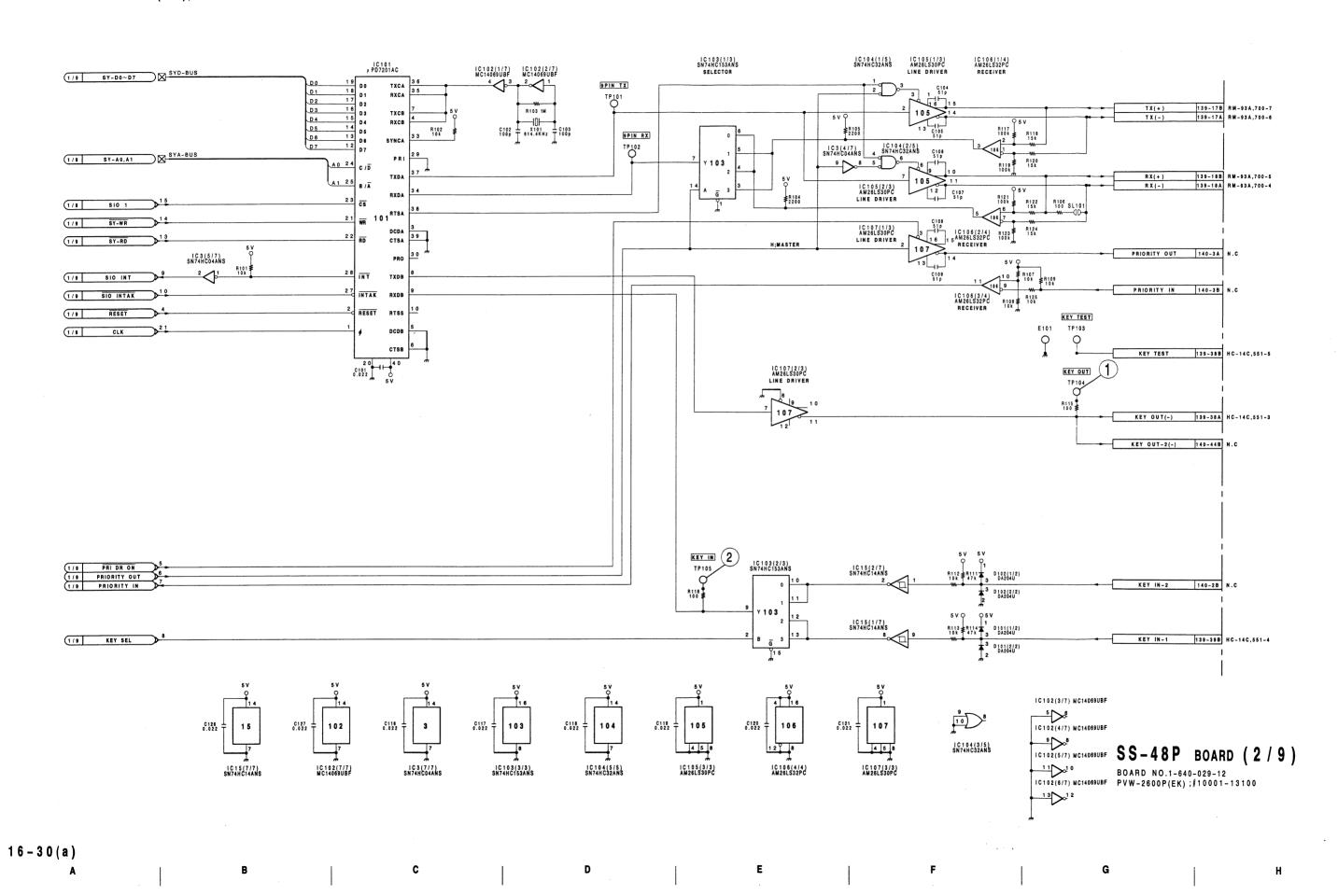
SS-48P(1/9);SYSTEM CONTROL

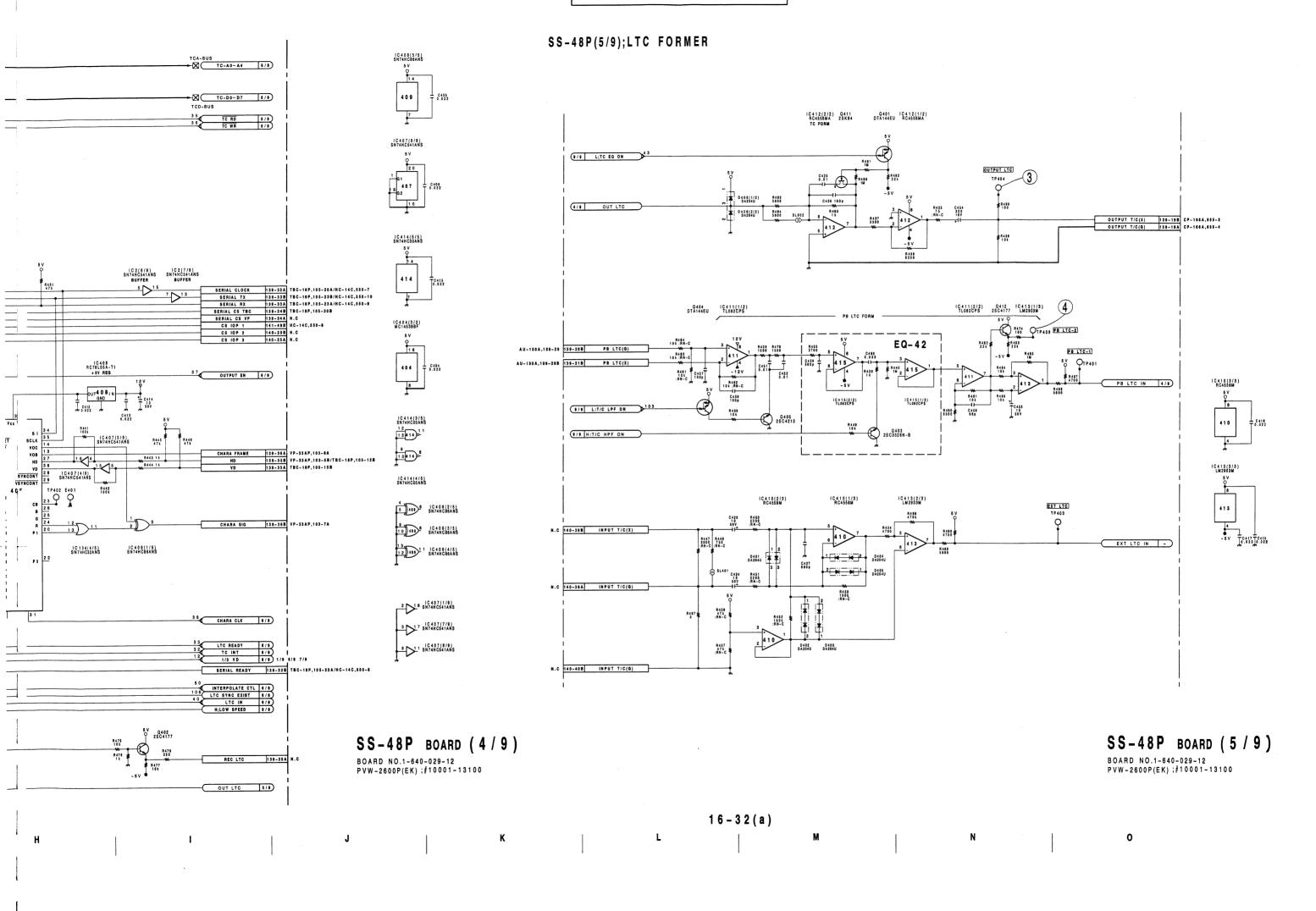


16-29(a) D | E | F G | H

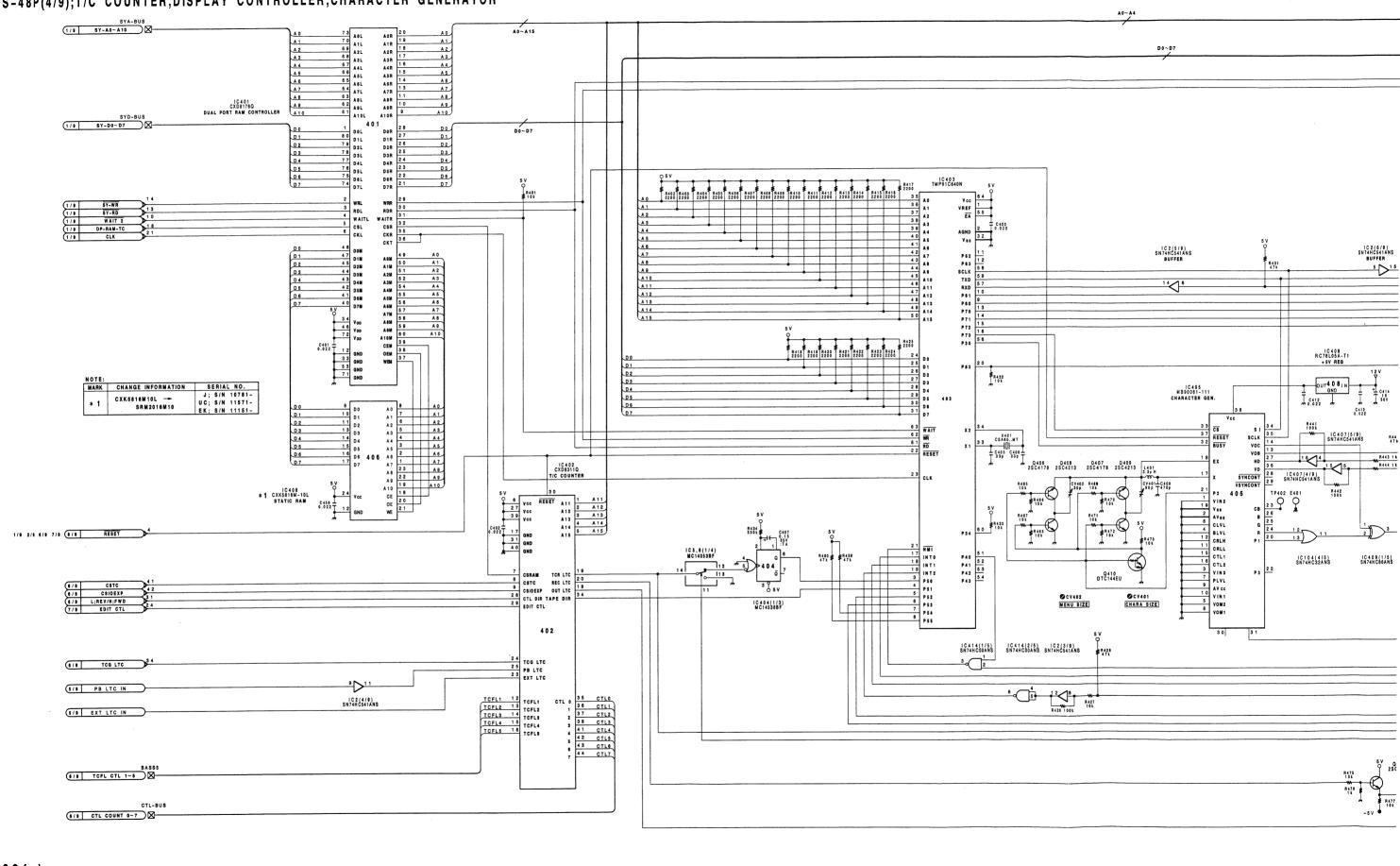
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SS-48P(2/9); SYSTEM CONTROL









16-32(a)

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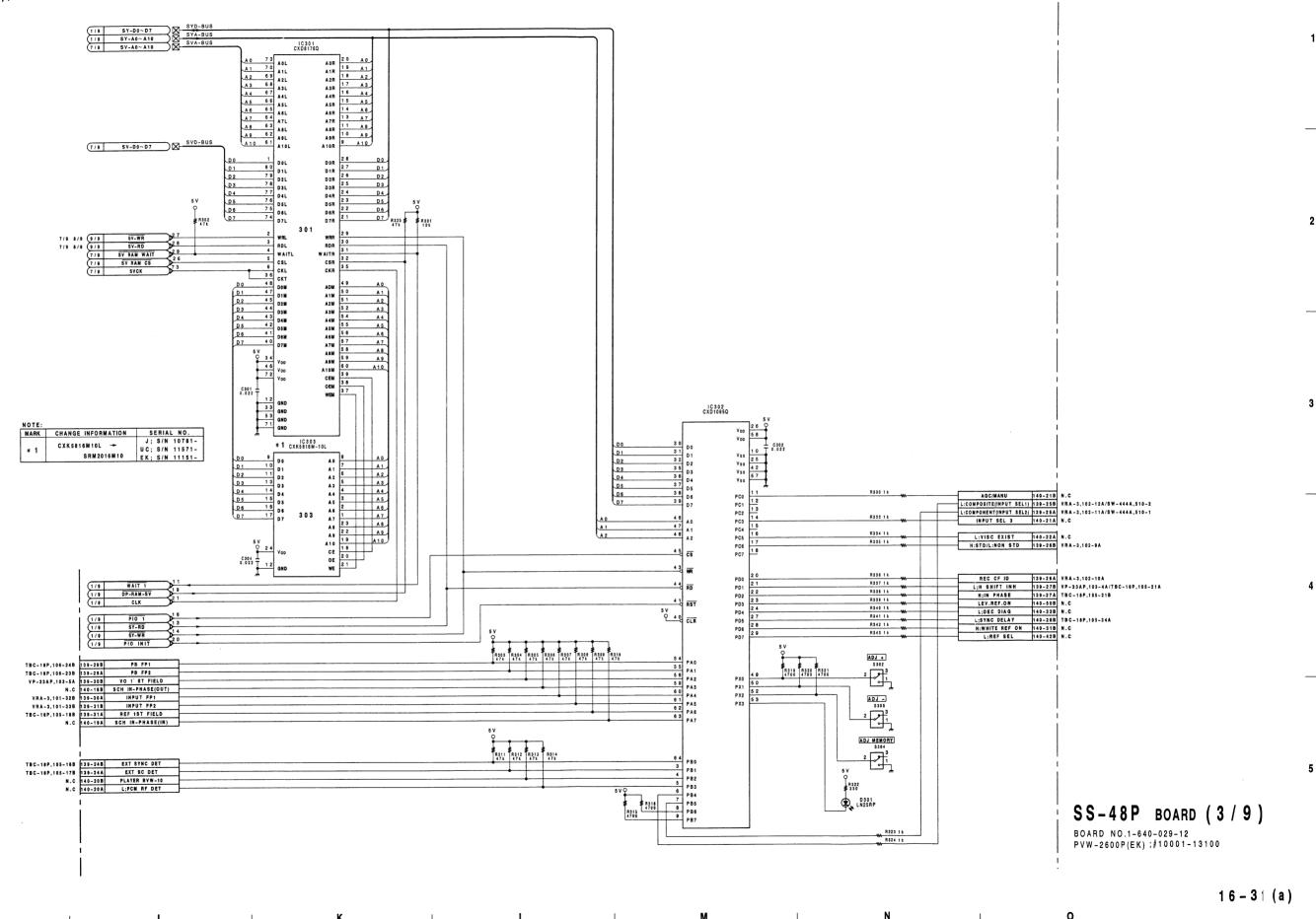
E

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G

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SS-48P(3/9); SYSTEM CONTROL



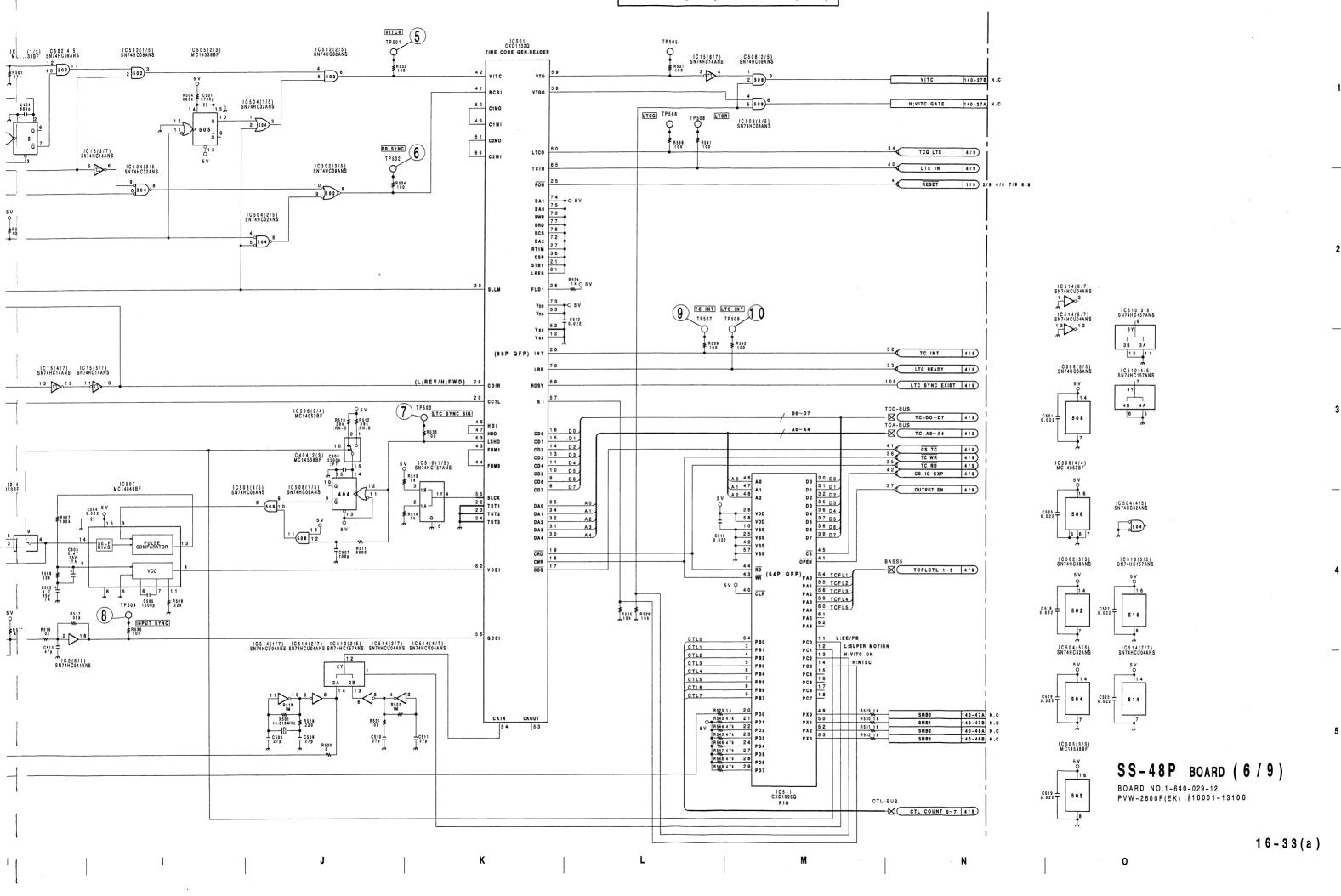
SS-48P(3/9) SS-48P(3/9)

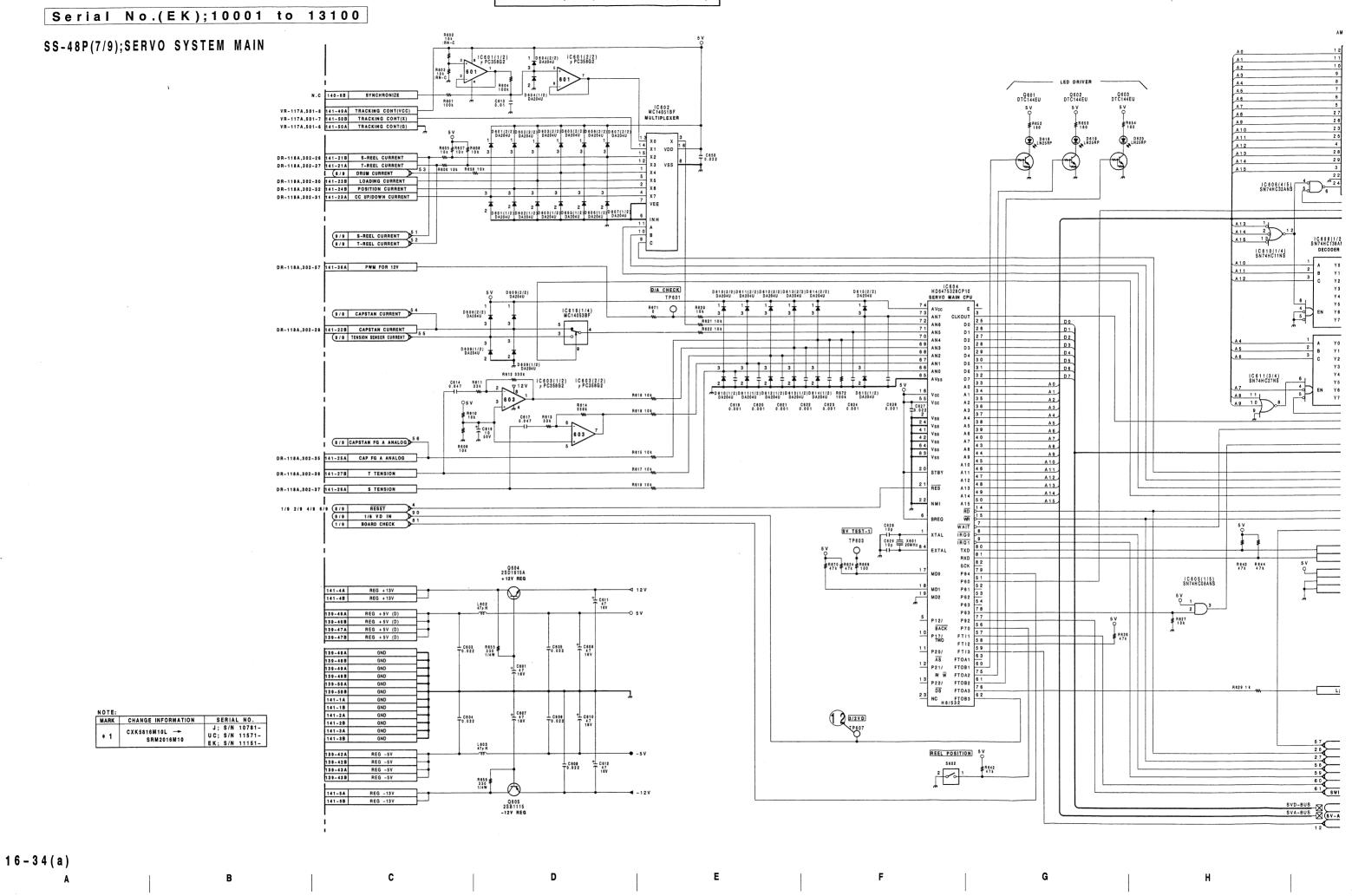
Serial

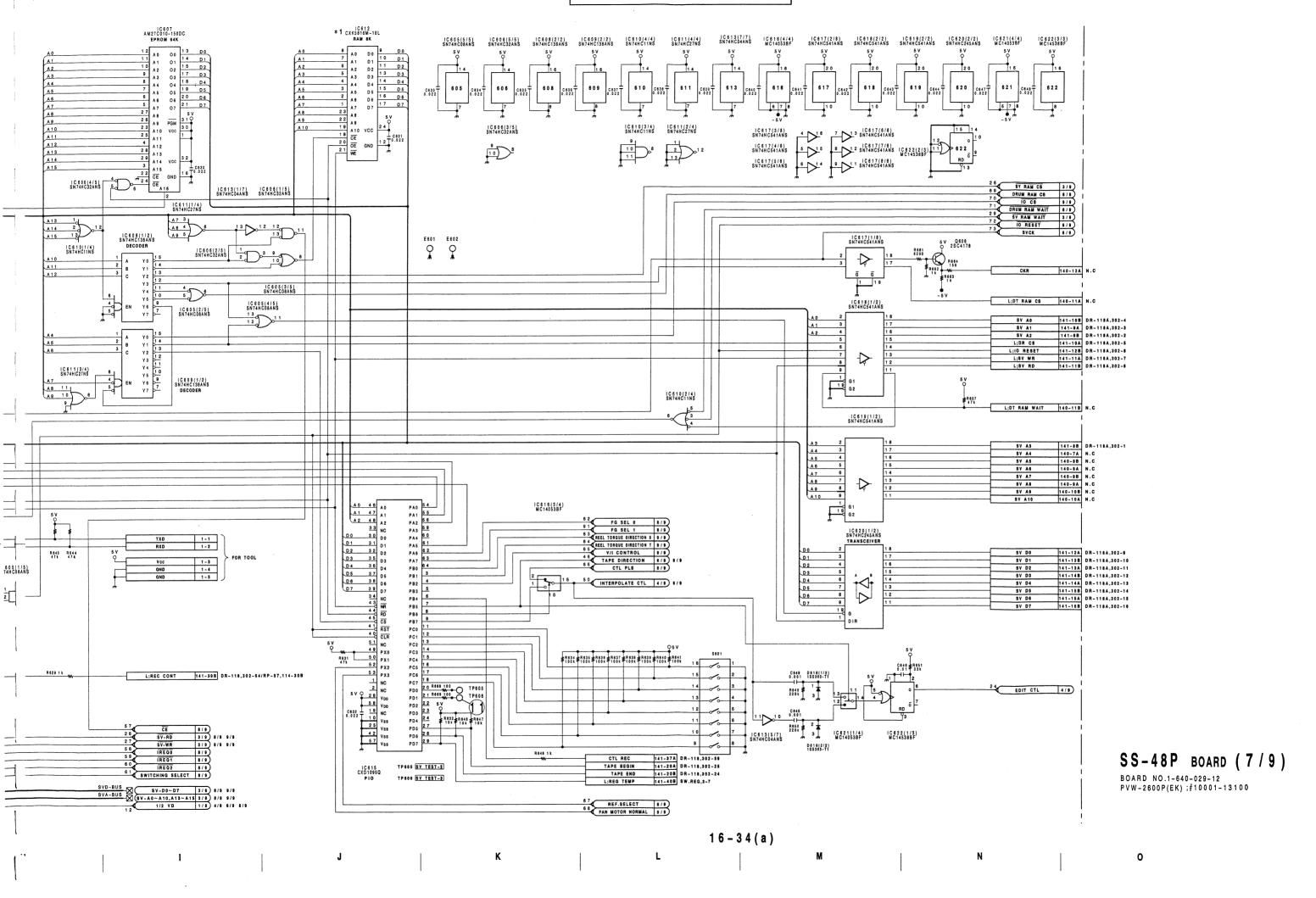
SS-48P(3/9

16-31(a)

16-33(a)

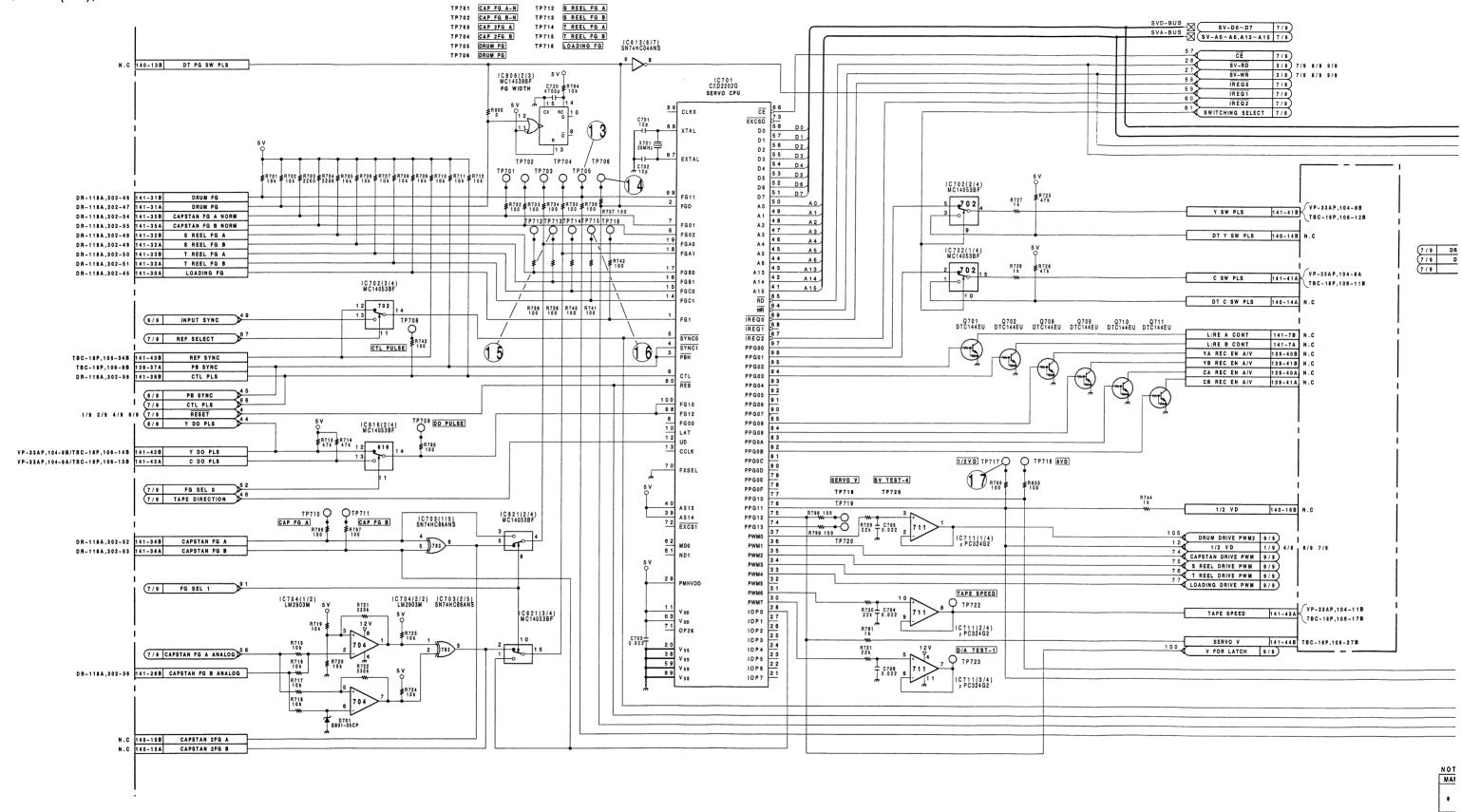




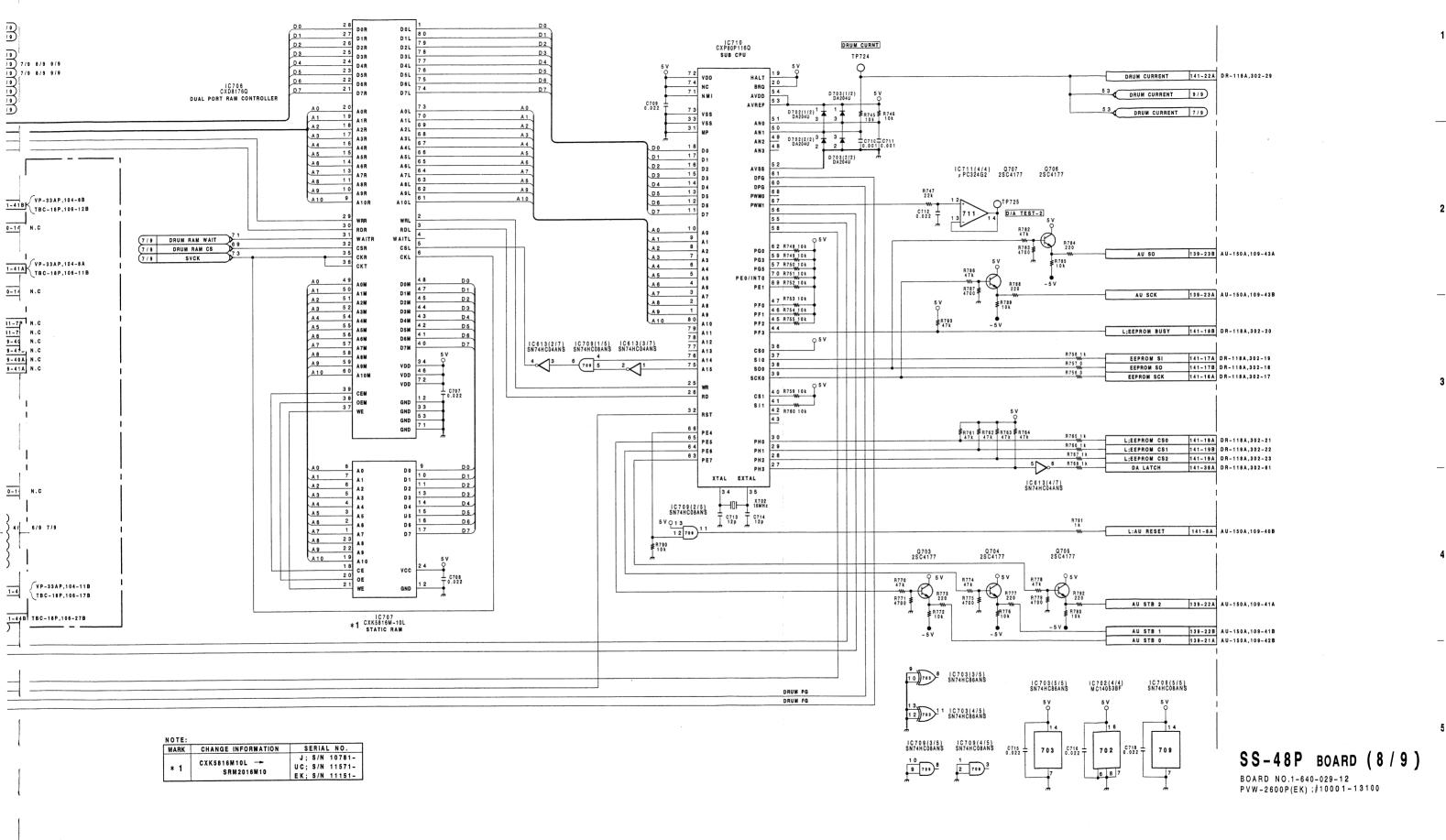


Serial No.(EK);10001 to 13100

SS-48P(8/9); SERVO SYSTEM MAIN



16-35(a) C D E F G H



16-35(a)

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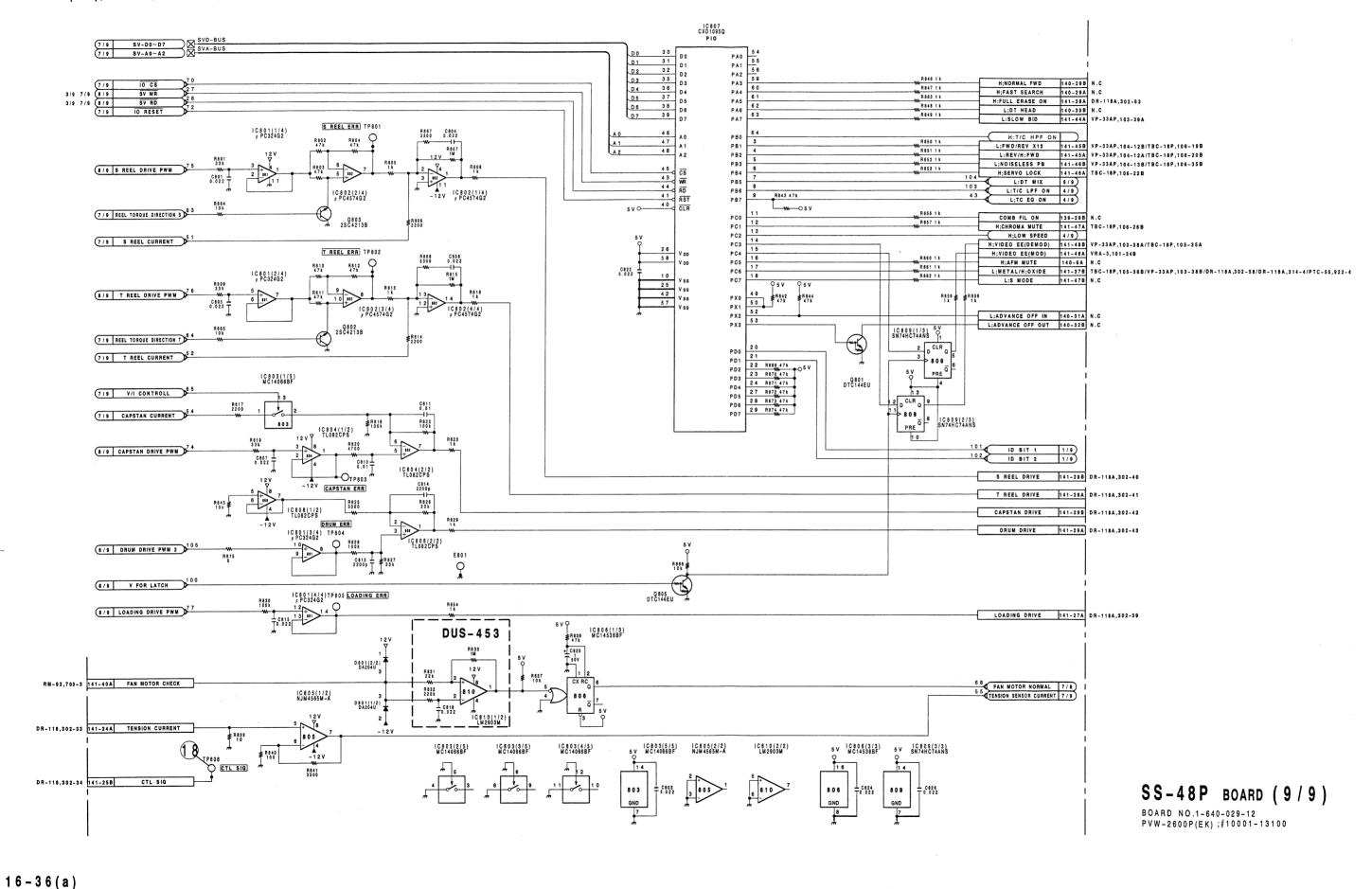
Serial No.(EK);10001 to 13100

SS-48P(9/9); SERVO, MODE CONTROL

1

3

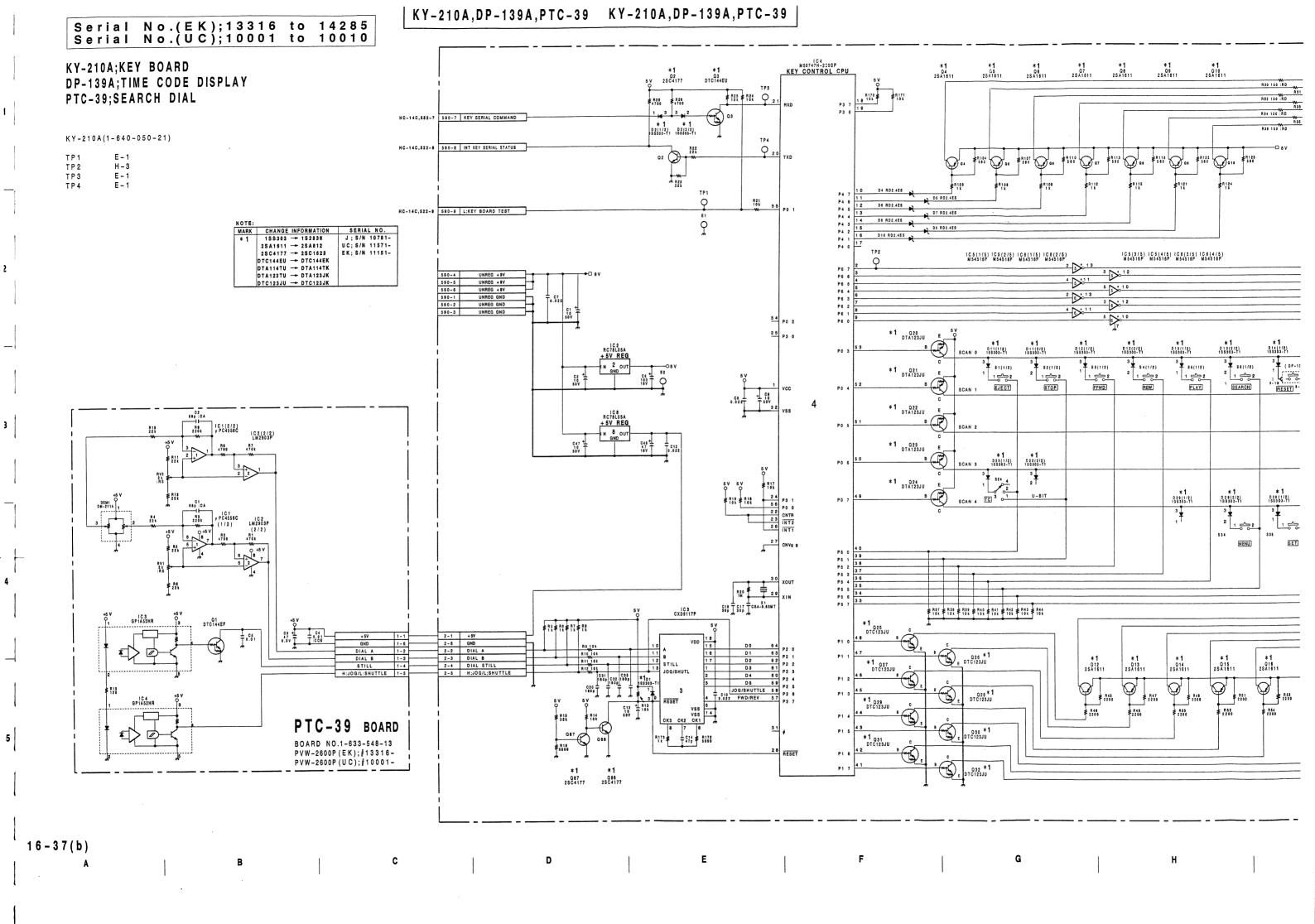
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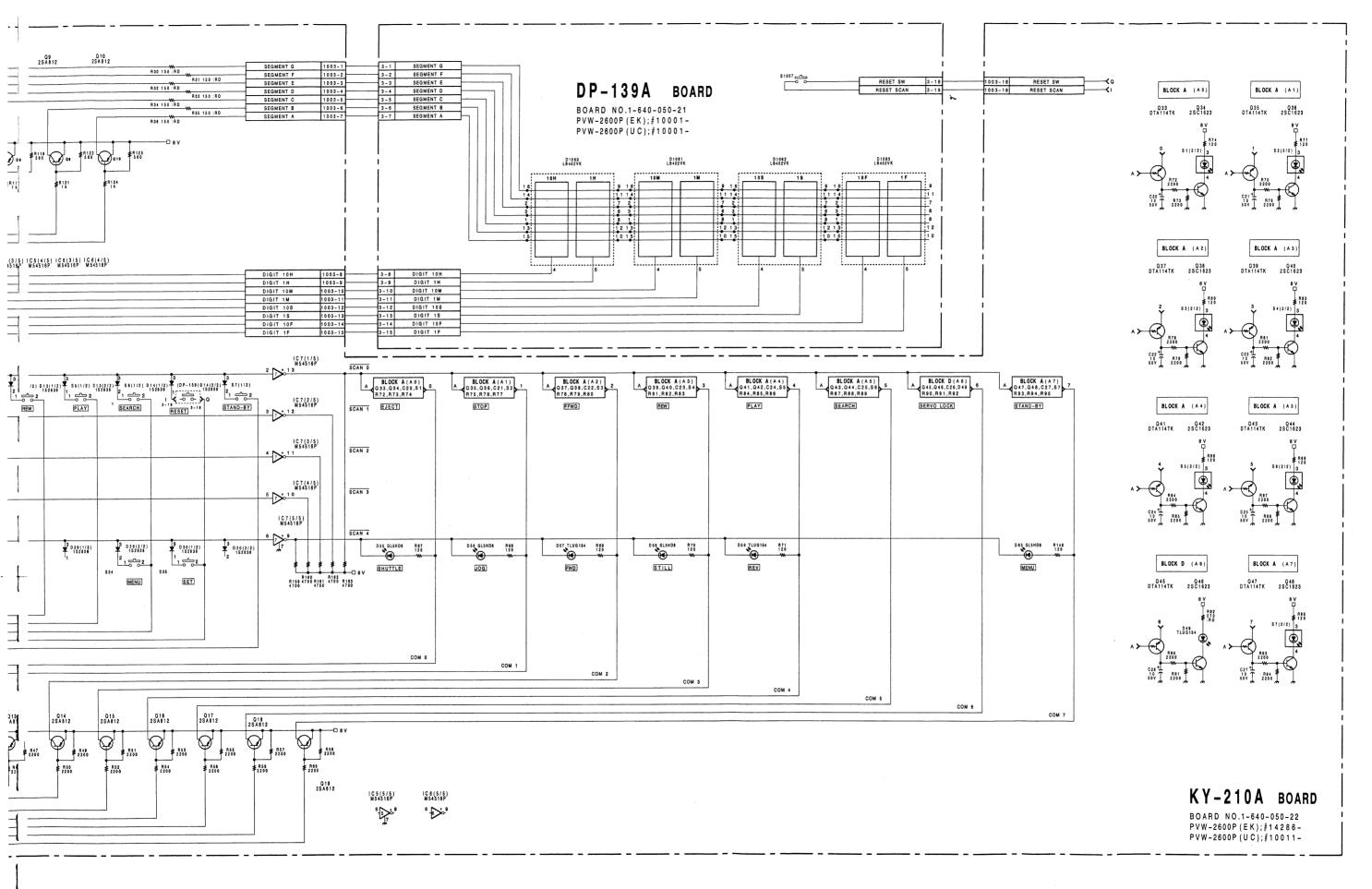


SS-48P(9/9) SS-48P(9/9)

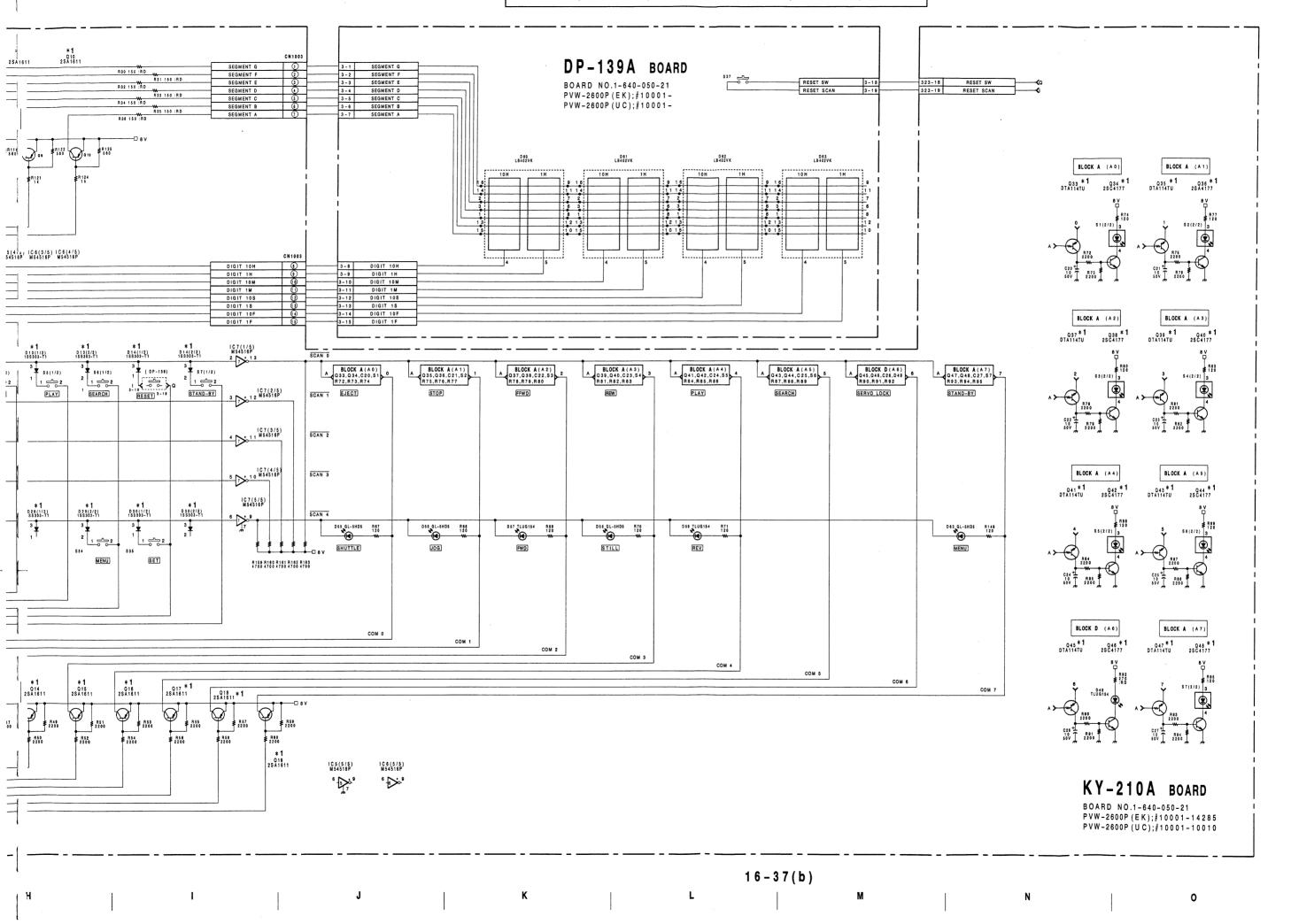
16-36(a)

C-55,922-4

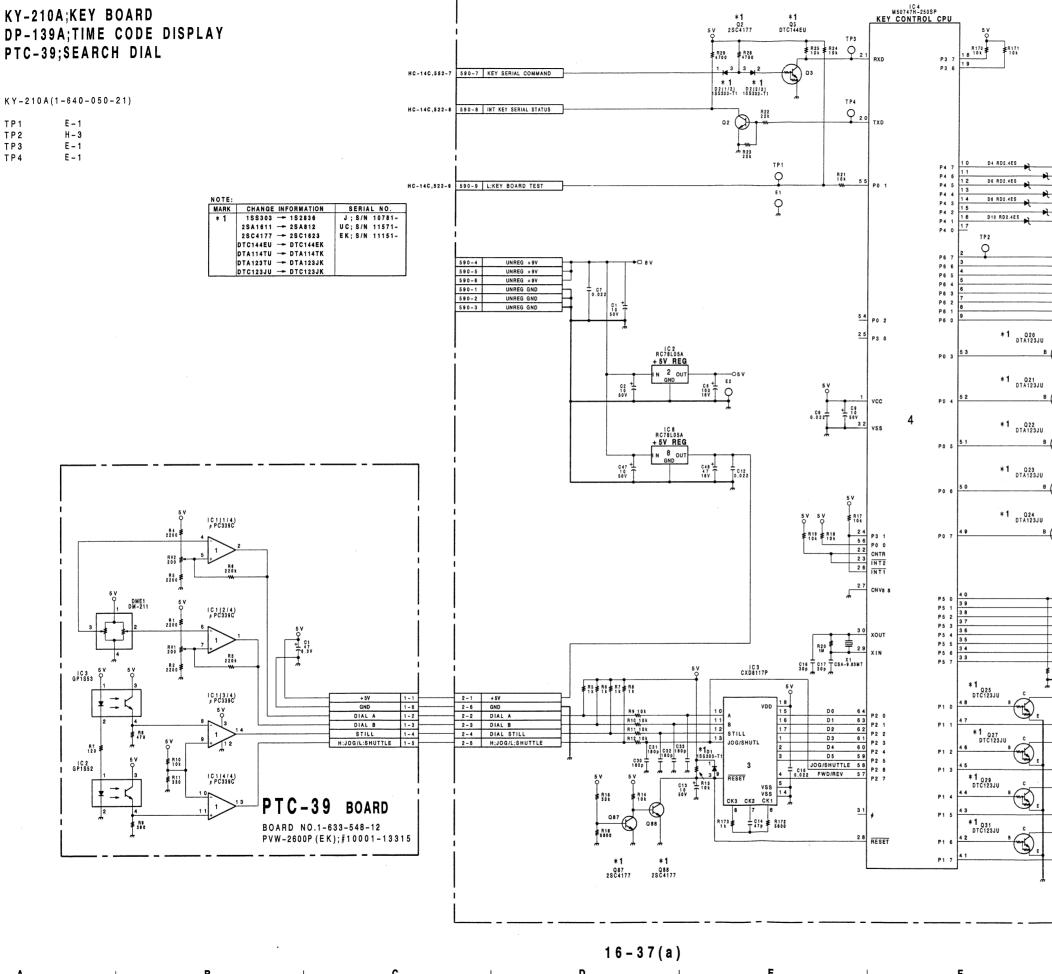


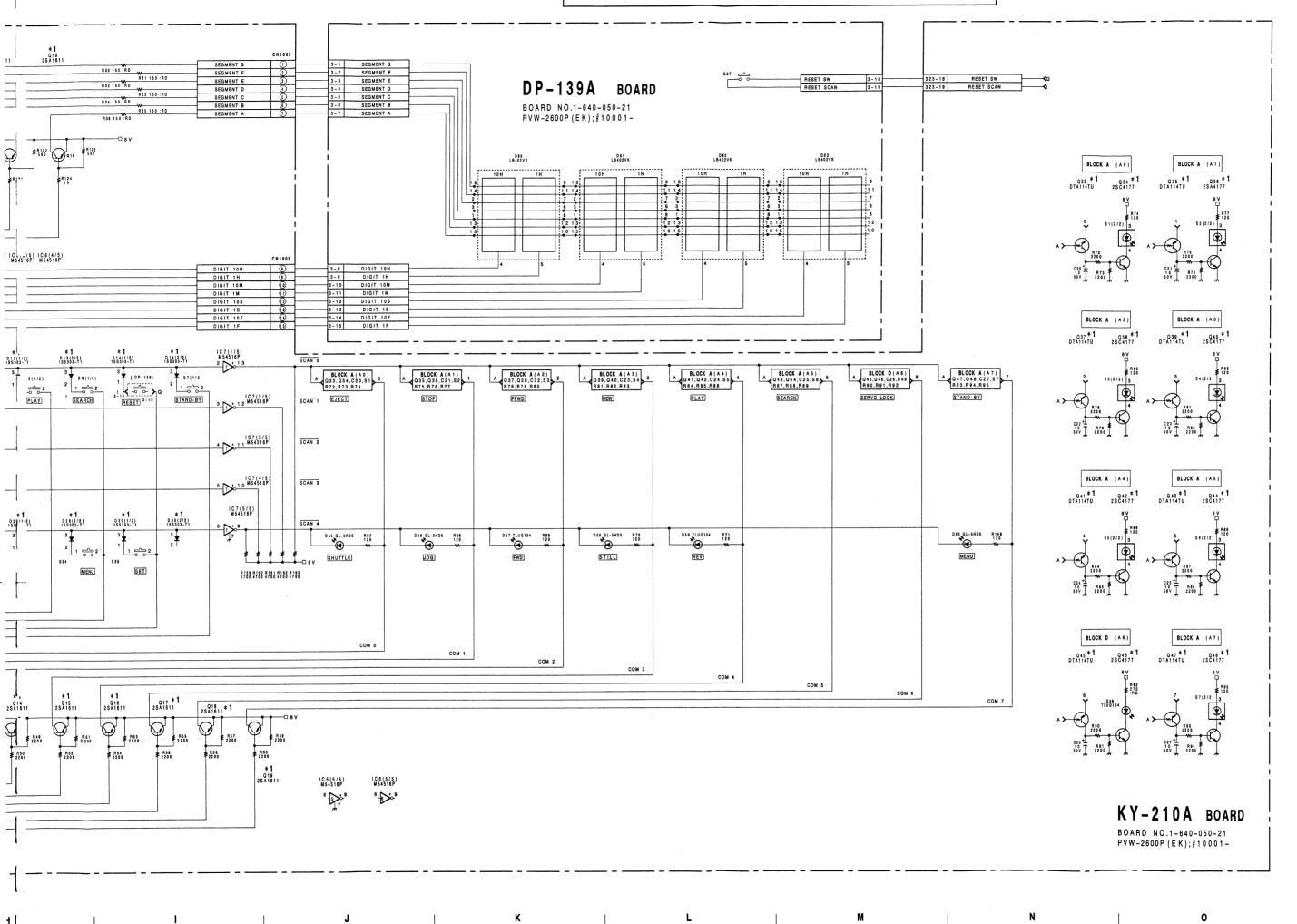


16-37(c)



C32 * 1





16-37(a)

Serial No.(EK);10001 to 14045 Serial No.(UC);10001 to 10010

DR-118A(1/4); MOTOR DRIVER, SOLENOID DRIVER

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DR-118A(1-640-030-22)
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TP201 G-2 TP202 F-2 TP301 B-4 TP501 C-2 TP801 J-3

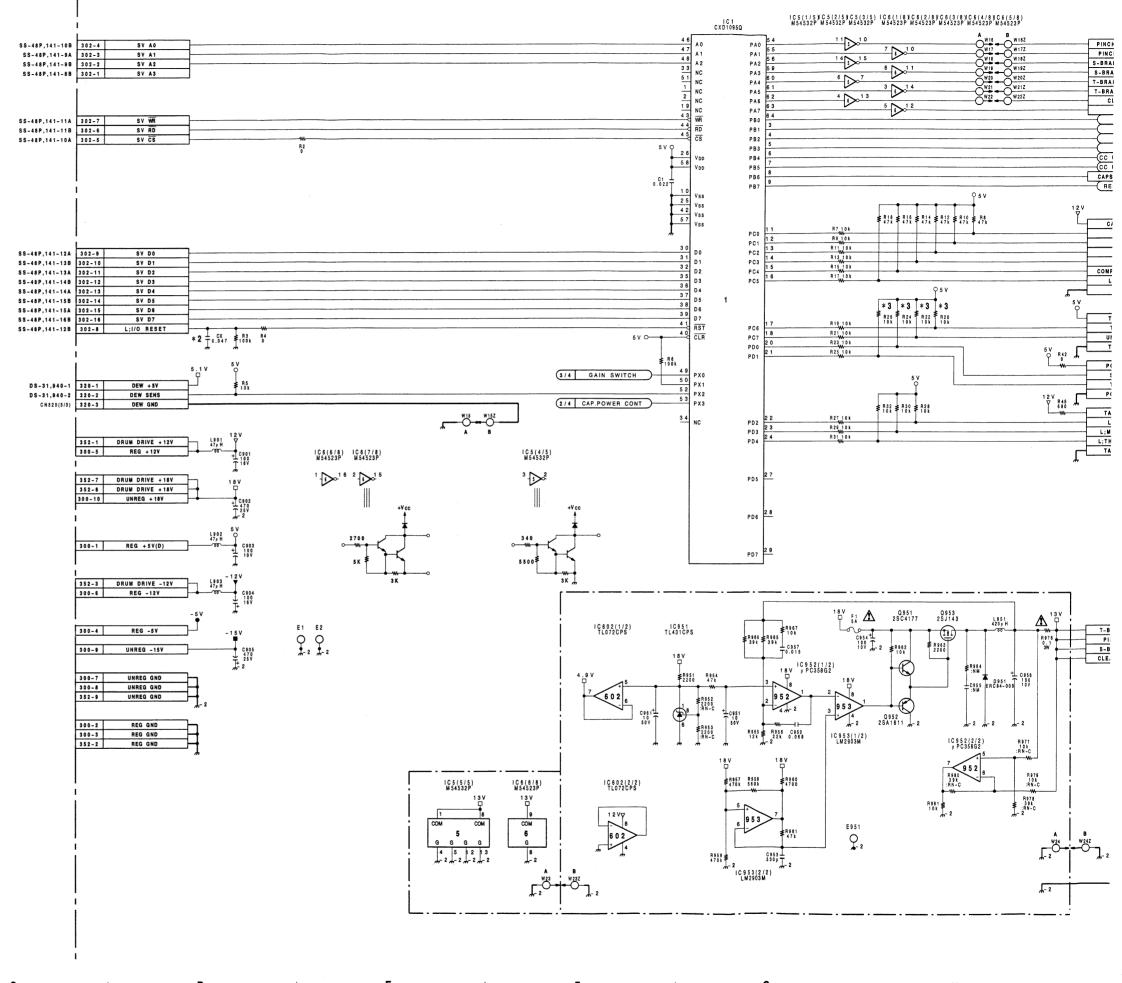
16-38

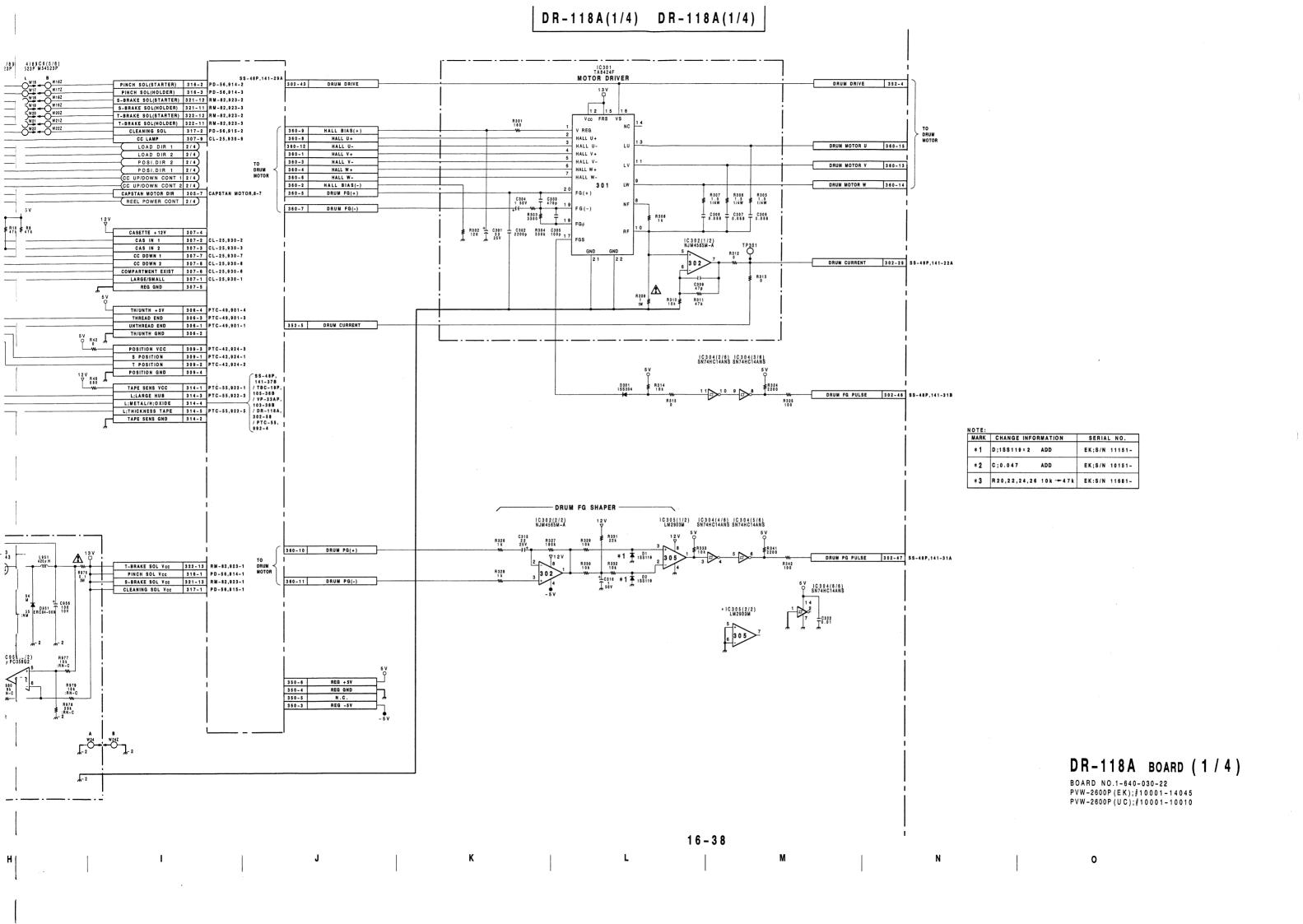
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The A - marked components are critical to safety.

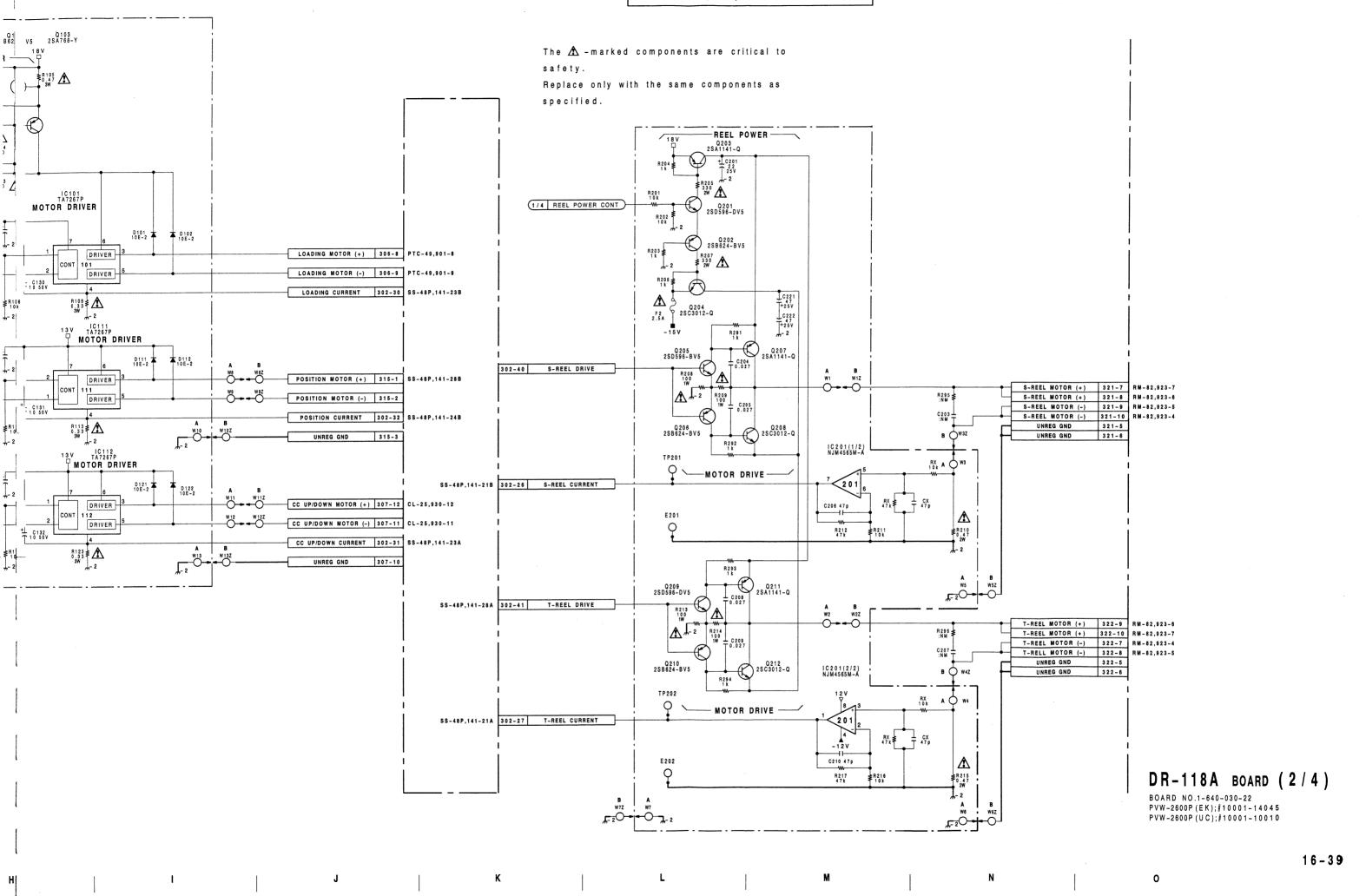
Replace only with the same components as specified.

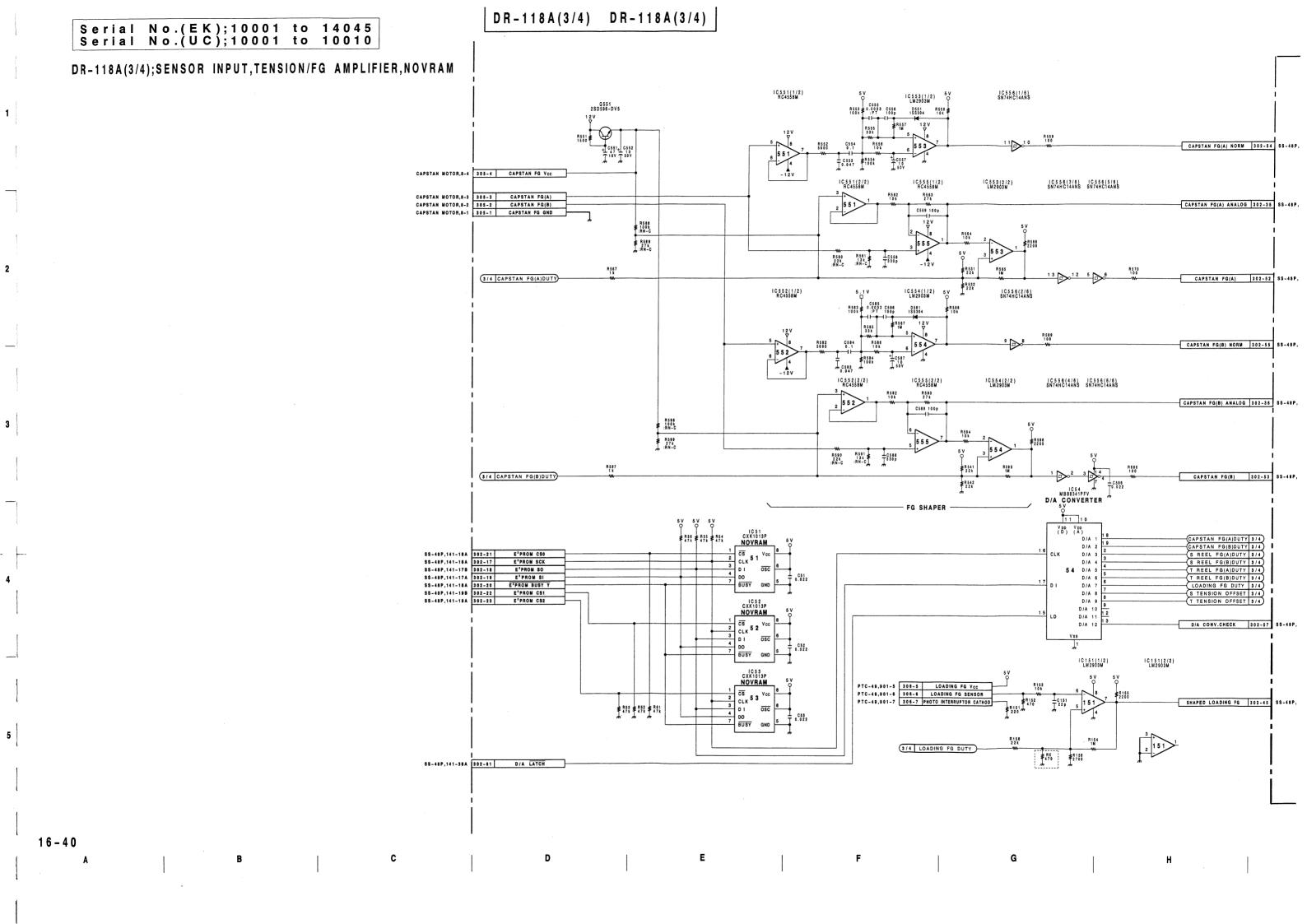
DR-118A(1/4) DR-118A(1/4)

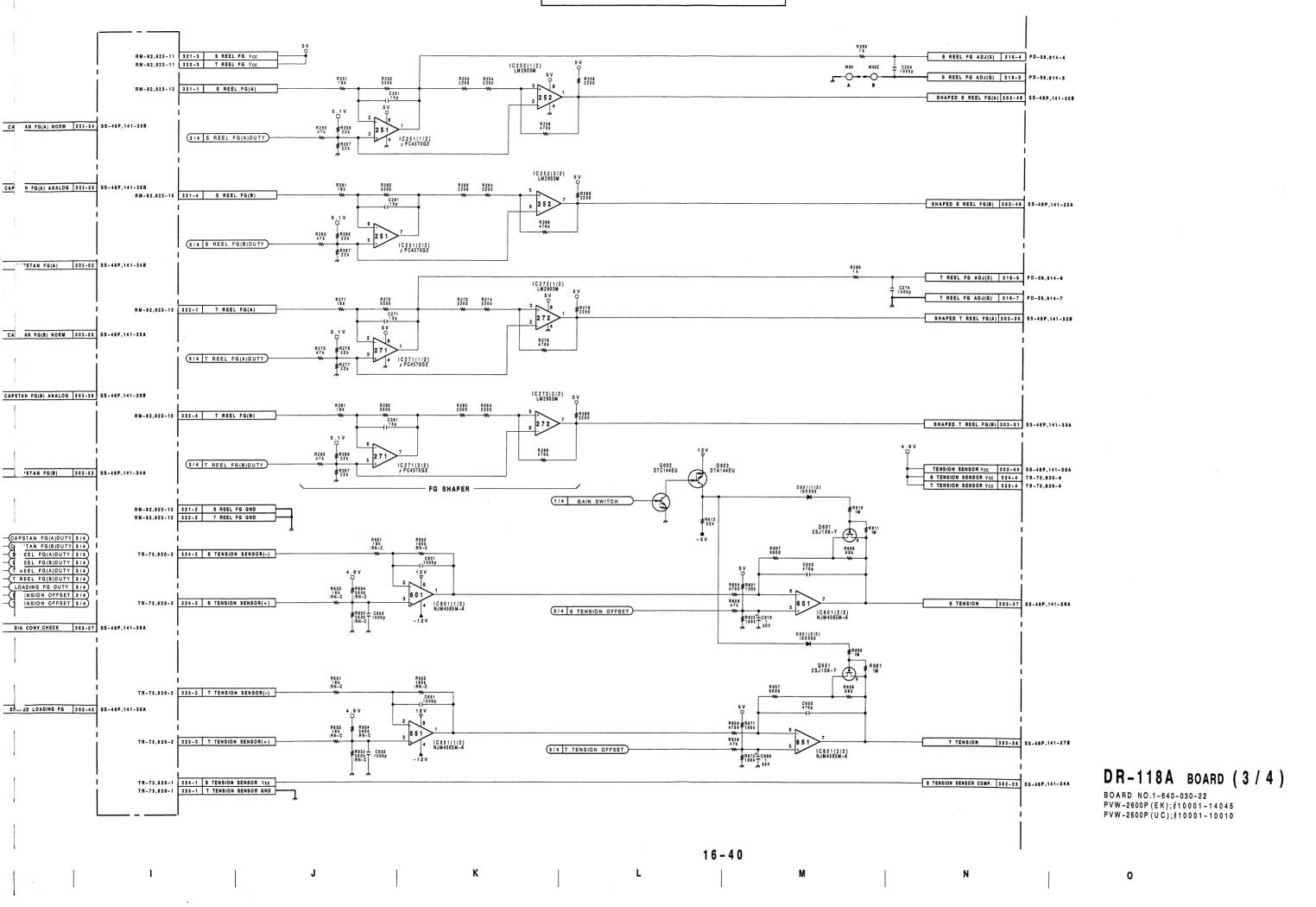




16-39



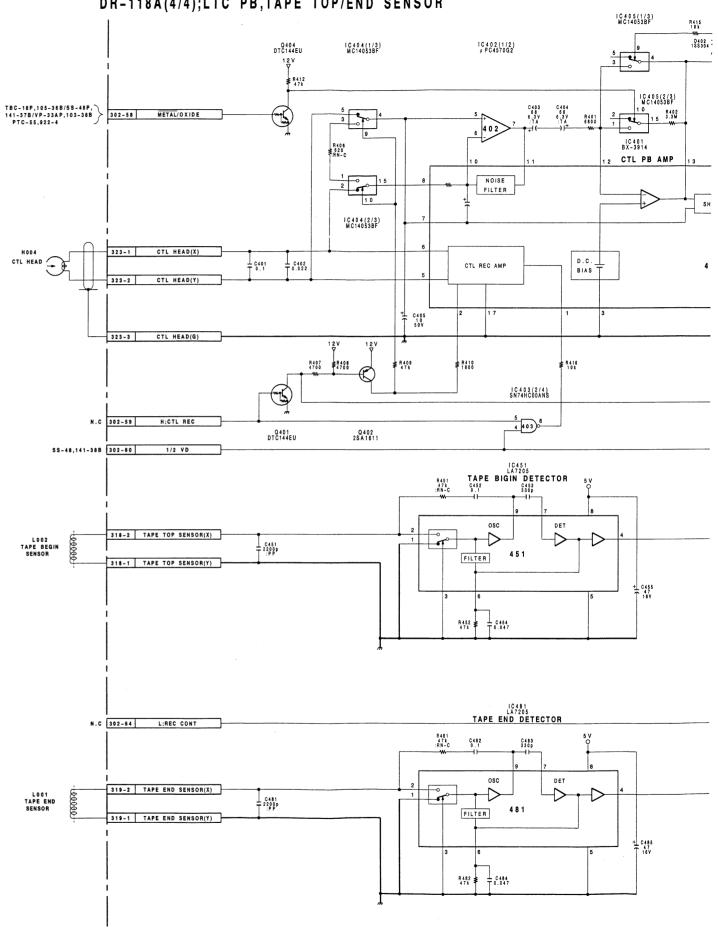




DR-118A(4/4) DR-118A(4/4)

Serial No.(EK);10001 to 14045
Serial No.(UC);10001 to 10010

DR-118A(4/4);LTC PB,TAPE TOP/END SENSOR



16-41

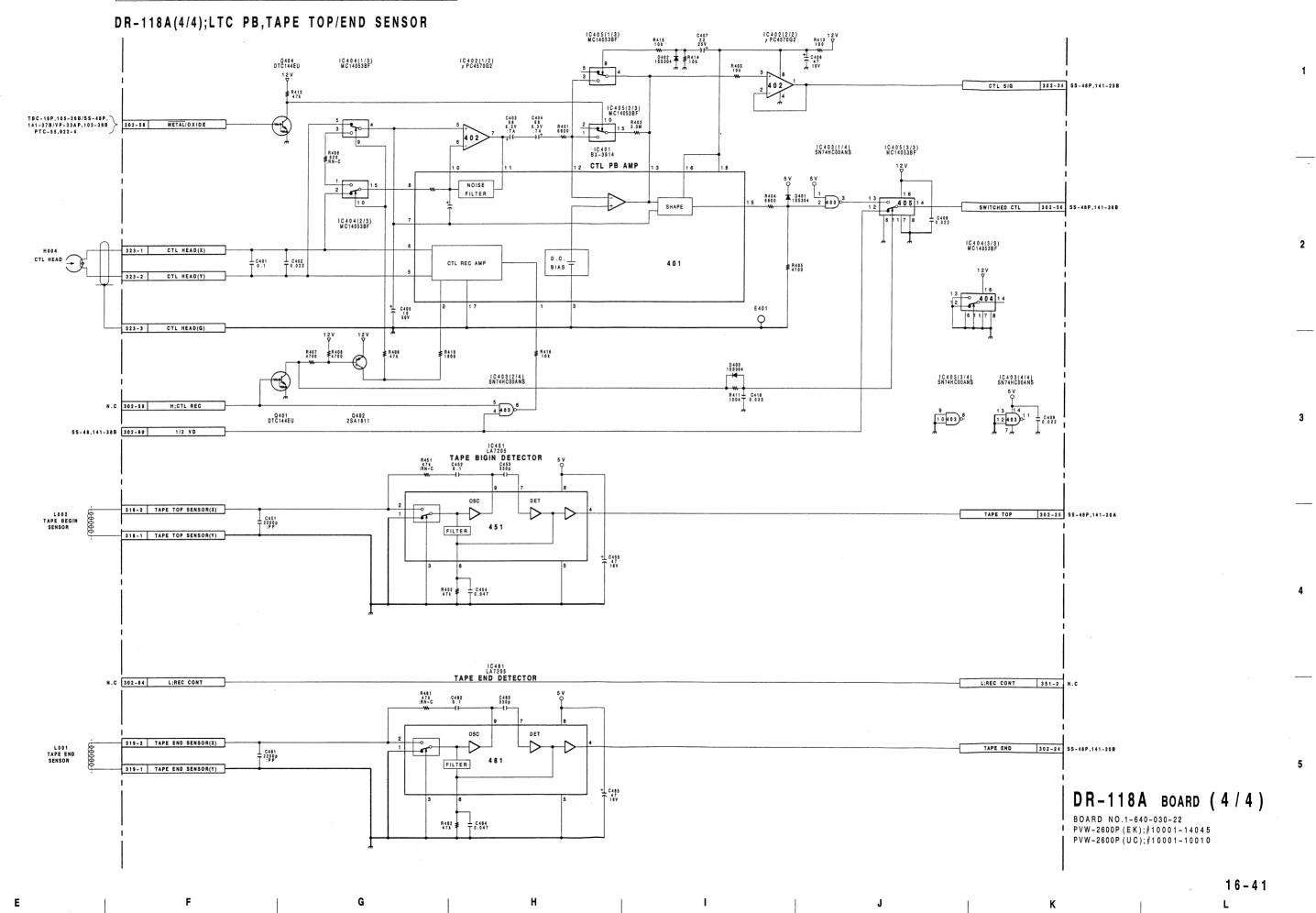
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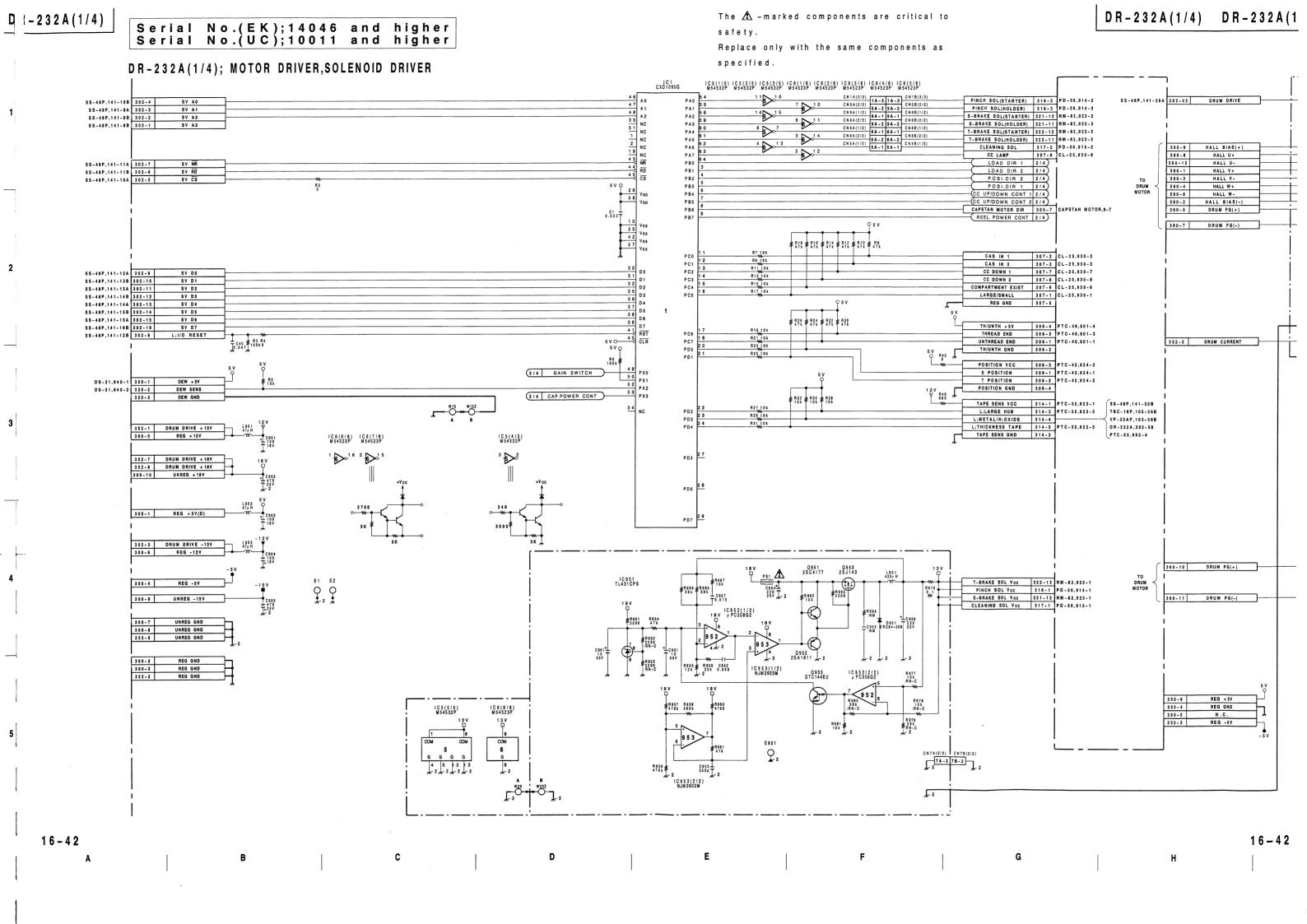
1

D

16-41

Serial No.(EK);10001 to 14045 Serial No.(UC);10001 to 10010





DR-232A(1/4) DR-232A(1/4) The \Lambda -marked components are critical to safety. Replace only with the same components as specified. IC1 CXD1095Q IC5(1/5) IC5(2/5) IC5(3/5) IC6(1/8) IC6(2/8) IC6(3/8) IC6(4/8) IC6(5/8) M54532P M54532P M54532P M54523P M54523P M54523P M 5 4 5 2 3 P M 5 4 5 2 3 P M 5 4 5 2 3 P M 5 4 5 2 3 P M 5 4 5 2 P M 5 4 5 2 P M 5 4 5 2 P M 5 4 5 P M 5 4 5 P M 5 4 PINCH SOL(STARTER) 316-2 PD-56,914-2 SS-48P,141-29A 302-43 DRUM DRIVE PINCH SOL(HOLDER) 316-3 PD-56,914-3 45 2 5 S-BRAKE SOL(STARTER) 321-12 RM-82,923-2 PA2 S-BRAKE SOL(KANTER) 321-11 RM-82,823-2
S-BRAKE SOL(KANTER) 321-11 RM-82,823-3
T-BRAKE SOL(STARTER) 322-12 RM-92,823-3
T-BRAKE SOL(HOLDER) 322-11 RM-92,823-3
CLEANING SOL 317-2
CC LAMP 397-9
LOAD DIR 1 2/4
LOAD DIR 2 2/4
POSLDIR 2 2/4 360-8 360-12 HALL U+ HALL U-PB0 360-1 360-3 HALL V+ HALL V-PB2 POSI.DIR 1 2/4 360-4 HALL W+ HALL W-CC UP/DOWN CONT 1 2/4
CC UP/DOWN CONT 2 2/4
CAPSTAN MOTOR DIR 305-7 CAPSTAN MOTOR,8-7 PB4 360-6 HALL BIAS(-) DRUM FG(+) 360-5 360-7 DRUM FG(-) ₹ 8 18 \$ 818 \$ 814 \$ 812 \$ 810 \$ 88 47k \$ 47k R302 +1 C301 1 C302 R304 C305 CAS IN 1 307-2 CL-25.930-2 R11 10k PC1 CAS IN 2 PC2 CC DOWN 1 307-7 CL-25.930-7 CC DOWN 2 PC3 COMPARTMENT EXIST 307-6 CL-25,930-6 LARGE/SMALL 307-1 CL-25,930-1 REG GND 307-5 # R26 # R24 # R22 # R20 TH/UNTH +5V 306-4 PTC-49,901-4
THREAD END 306-3 PTC-49,901-3
UNTHREAD END 308-1 PTC-49,901-1 4 1 RST 4 0 CLR 352-5 DRUM CURRENT TH/UNTH GND POSITION VCC 309-3 PTC-42,924-3 309-1 PTC-42,924-1 <u>TCH</u>)— S POSITION 309-2 PTC-42,924-2 309-4 T POSITION POSITION GND 1 2 V R46 F CONT ₹ R32 ₹ R30 ₹ R28 SS-48P,141-30B TAPE SENS VCC 314-1 PTC-55,922-1 L;LARGE HUB 314-3 PTC-55,922-3 TBC-18P.105-36B L;METAL/H;OXIDE 314-4 VP-33AP,103-38B PD3 L;THICKNESS TAPE 314-5 PTC-55,922-5 DR-232A,302-58 PTC-55,992-4 TAPE SENS GND 314-2 PD5

> DRUM FG PULSE 302-46 SS-48P,141-31B 1C302(2/2) TL082CPS IC305(1/2) IC304(4/6) IC304(5/6) NJM2903M SN74HC14ANS SN74HC14ANS 360-10 DRUM PG(+) V 1 2 V 8 DRUM PG PULSE 302-47 SS-48P,141-31A T-BRAKE SOL Vcc 322-13 RM-82,823-1
> PINCH SOL Vcc 316-1 PD-56,814-1
> S-BRAKE SOL Vcc 321-13 RM-82,823-1
> CLEANING SOL Vcc 317-1 PD-58,815-1 DRUM PG(-) 1 C 3 O 4 (6 / 6) SN74HC14ANS REG +5V 350-4 REG GND

IC301 TA8424F MOTOR DRIVER

9 V

Vcc FRS V REG

301

HALL U+

HALL U-

HALL V+

5 HALL V-

6 HALL W+

C304 I C303

R303 ≱

16-42

BOARD NO.1-640-020-21

PVW-2600P (EK);#14046-PVW-2600P (UC);#10011-

DRUM DRIVE 352-4

360-15

360-14

DRUM CURRENT 302-29 SS-48P,141-22A

DRUM MOTOR U

DRUM MOTOR V

DRUM MOTOR W

R307 R306 R305 1.5 \$ 1.5 \$ 1.5 1/4₩ \$ 1/4₩

L C308 L C307 L C306

1C302(1/2) TL082CPS

C309 0.01

1C304(2/6) 1C304(3/6) SN74HC14ANS SN74HC14ANS

R310

955 ≢ R956 C952 2k ≠ 22k 0.068

C953 ±

≢R980 4700

R957 R959

953

IC953(2/2) NJM2903M

R958 ≢

PD6

PD7 29

IC 9 5 1 TL431 CPS

18V

₹8951 \$2200

Q951 28C4177

Q952 2SA1611 -2

Q955 DTC144EU

PS1 A

IC953(1/2) NJM2903M

E951

Q953 2SJ143

₹R963 2200

L951 420s H

C955 T:NM D951 C955 FRC84-009 25V

R979 10k :RN-C

7A-2 7B-2

IC952(2/2) # PC358G2

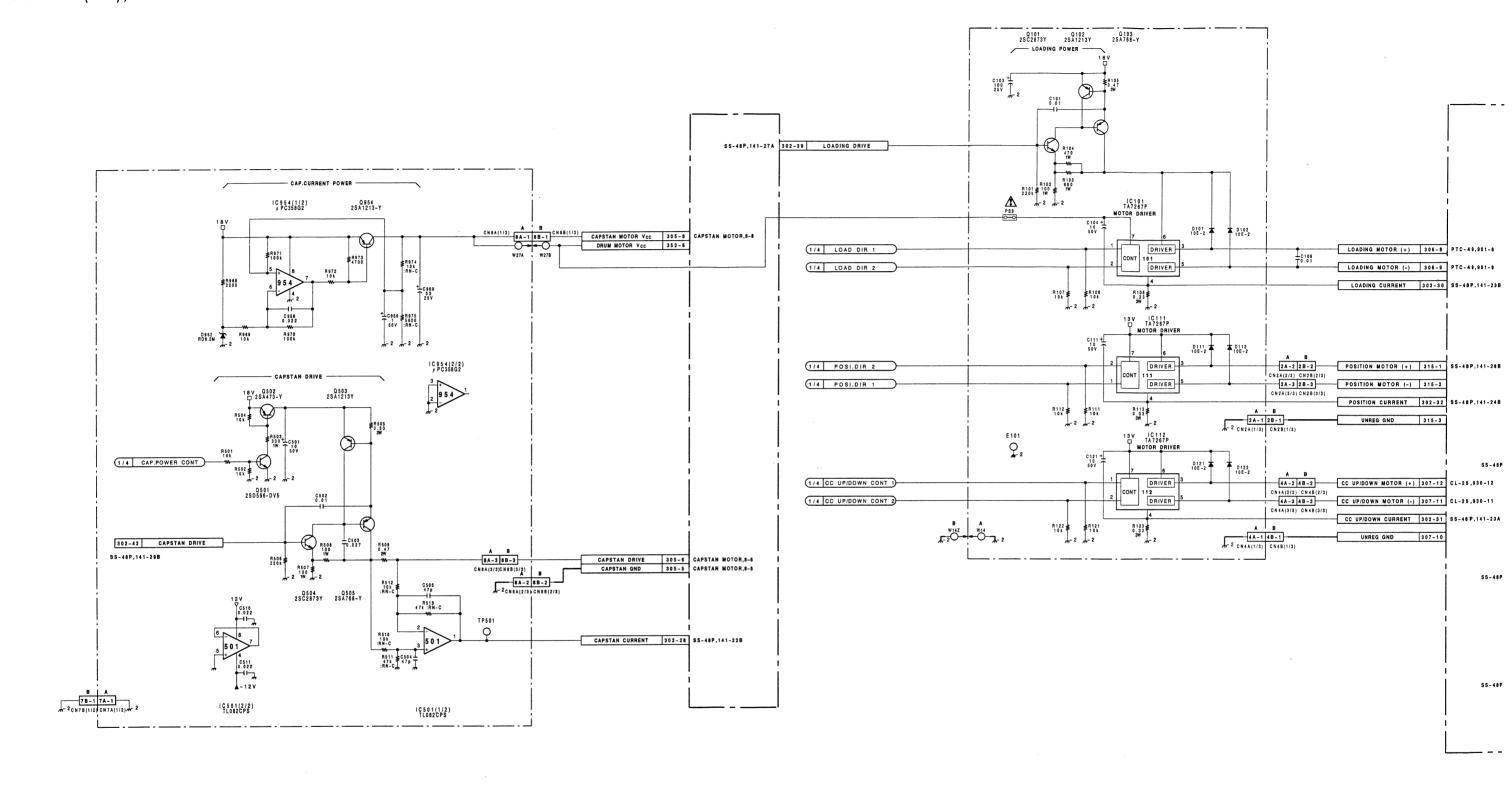
R 980 39 k :RN-C

R981 ≢ 10 k

DR-232A BOARD (1/4)

Serial No.(EK);14046 and higher Serial No.(UC);10011 and higher

DR-232A(2/4); MOTOR DRIVER



16-43

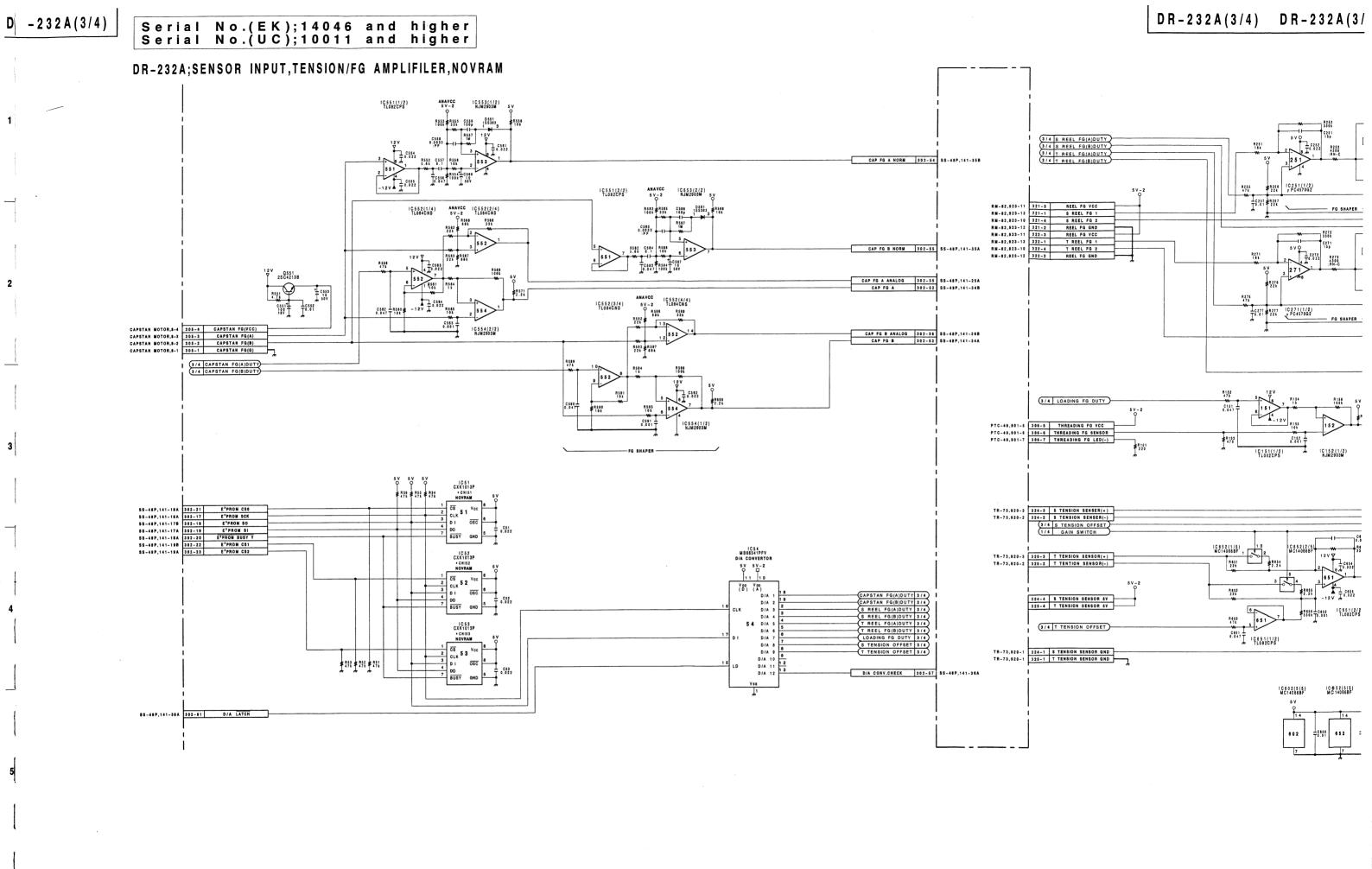
D

E

F

Н

-2 2 A (2/4) DR-232 A (2/4)

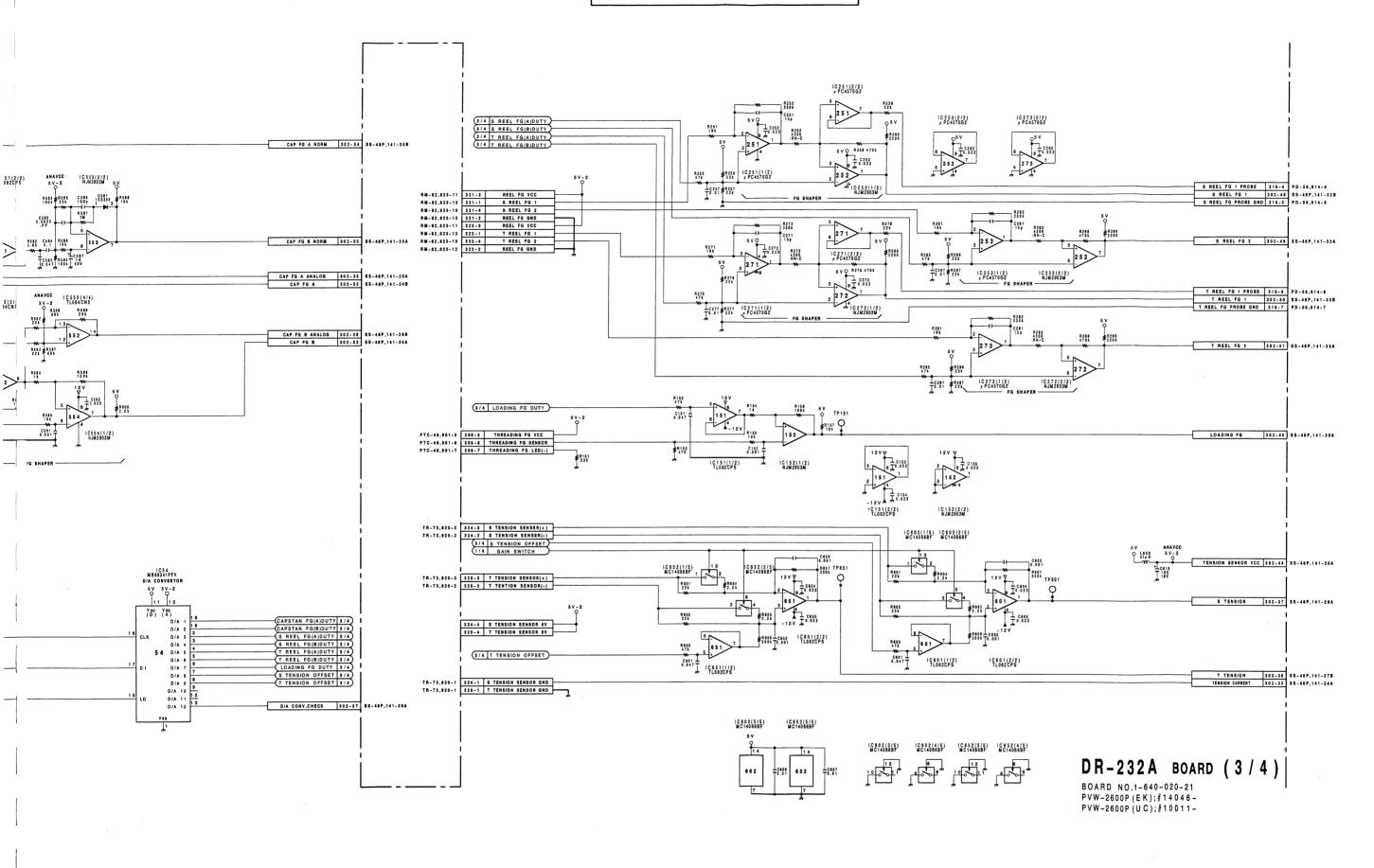


16-44

16-44

G

Н



16-44

1

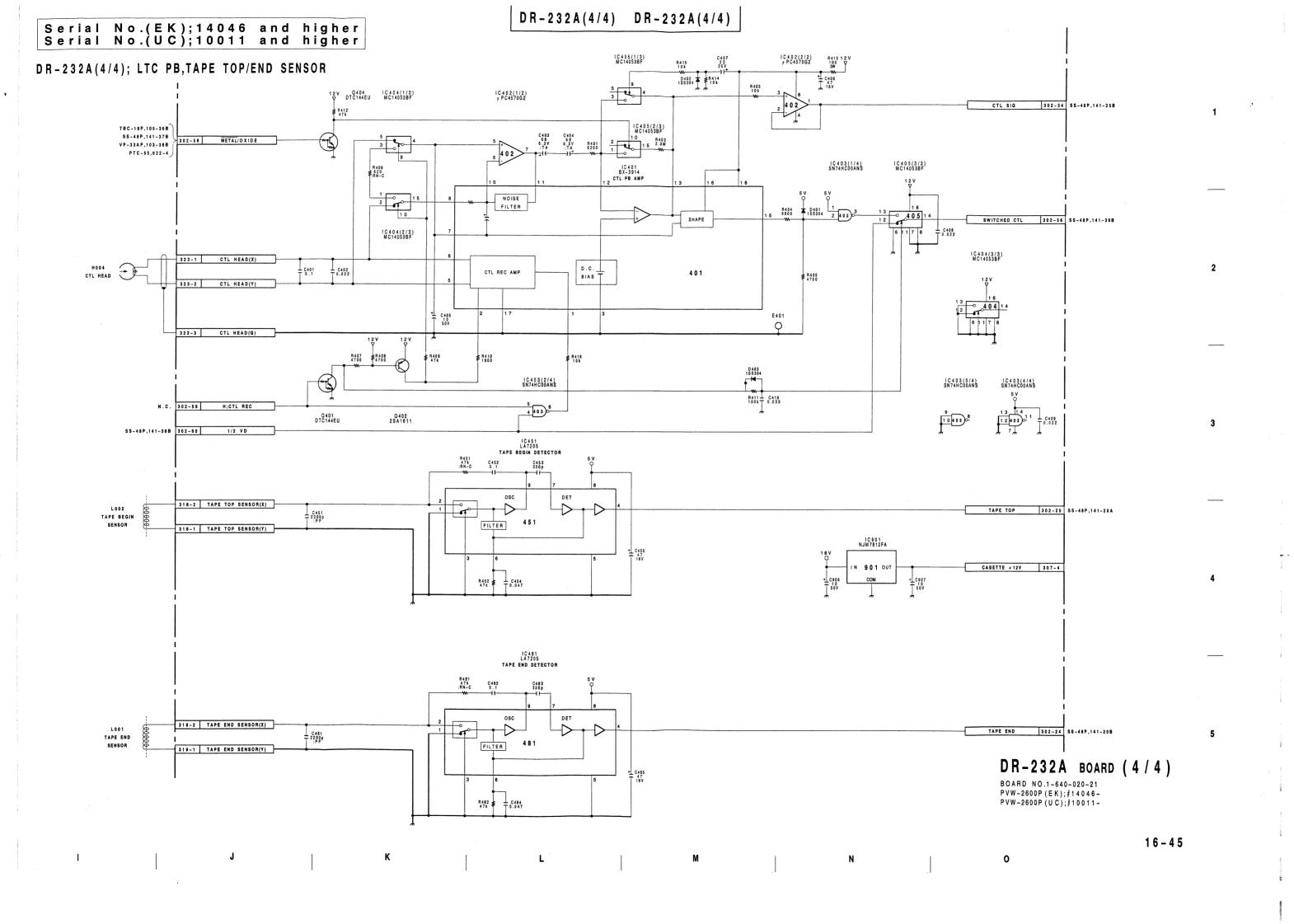
J

K

L

DR-232A(4/4) DR-232A(4/4)

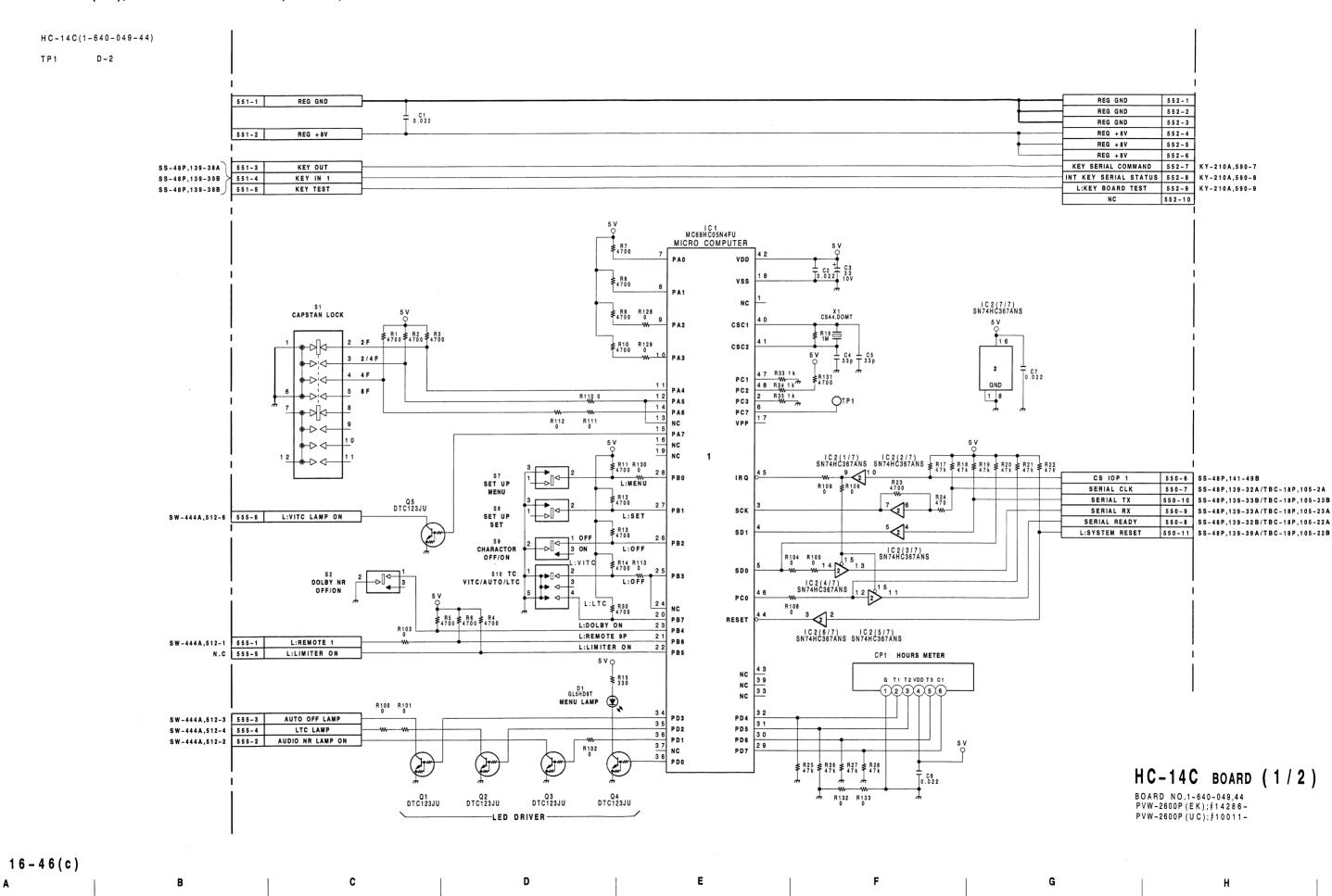
16-45



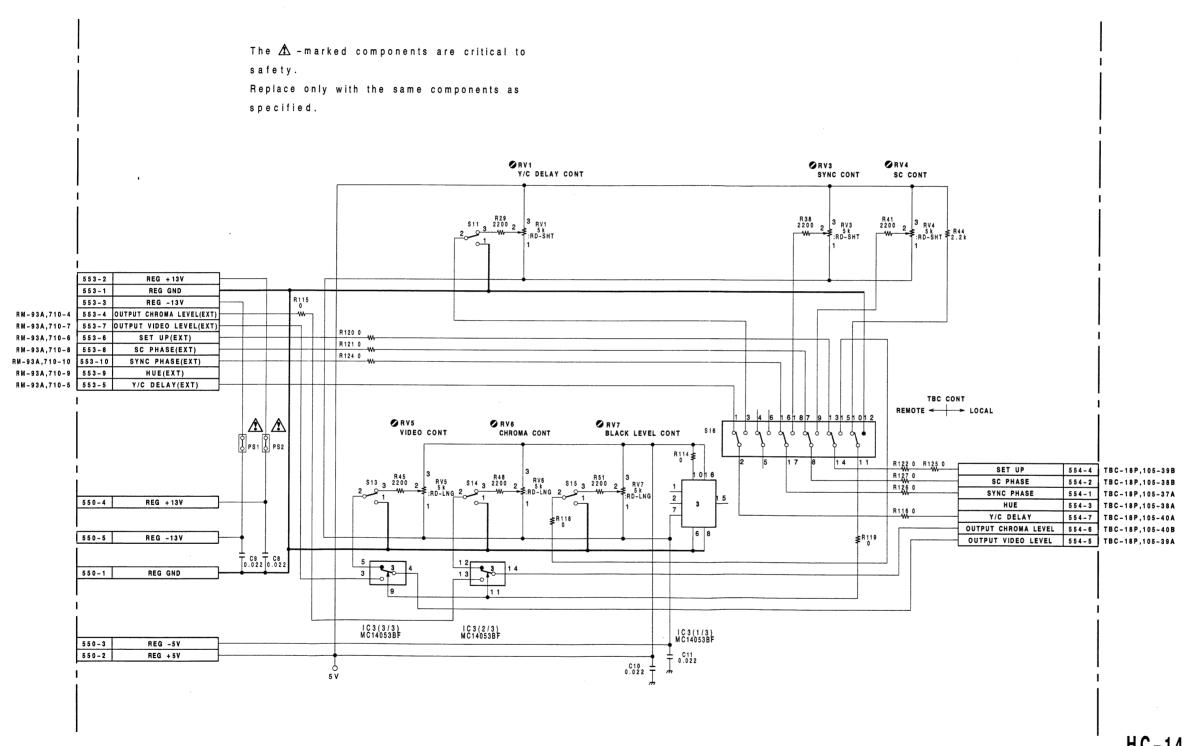
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Serial No.(EK);14286 and higher Serial No.(UC);10011 and higher
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HC-14C(1/2); SUB-CONTROL PANEL(SWITCH)

1



HC-14C(2/2); SUB-CONTROL PANEL (TBC CONTROL)



HC-14C BOARD (2/2)

BOARD NO.1-640-049-44 PVW-2600P (EK);#14286-PVW-2600P (UC);#10011-

16-46(c)

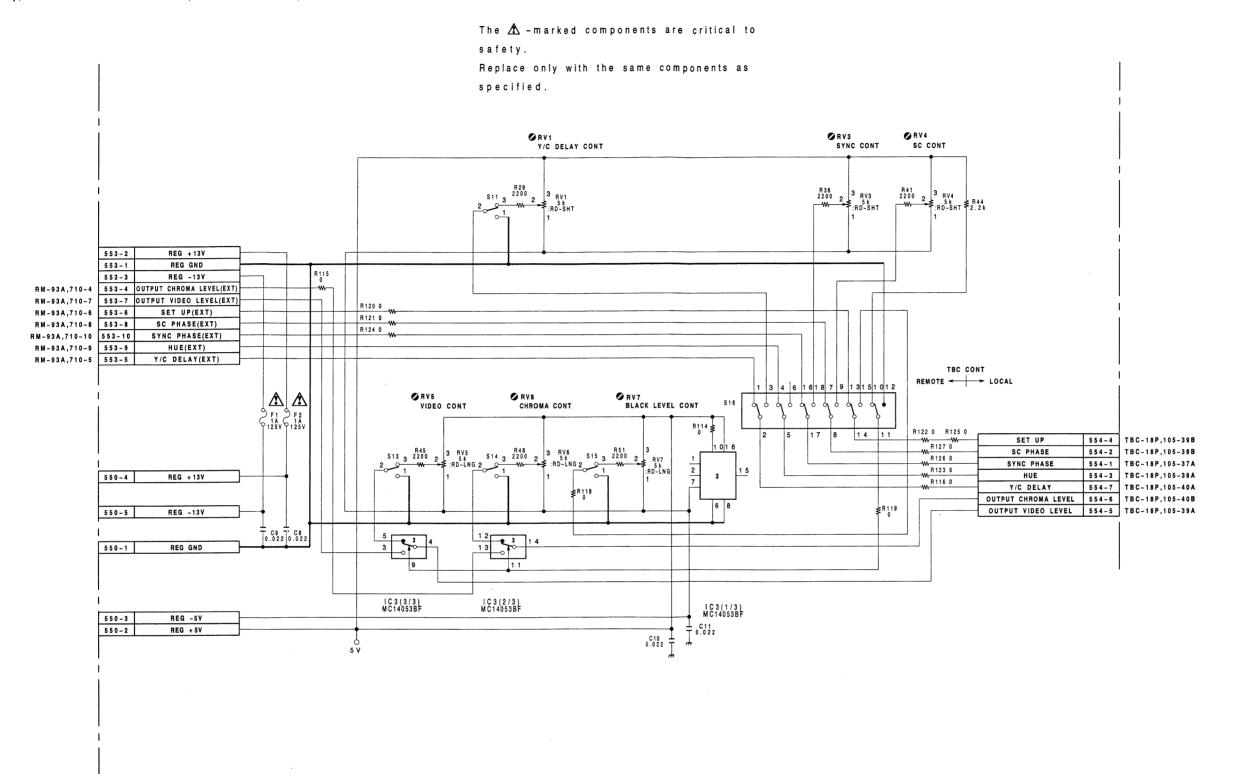
Serial No.(EK);11151 to 14285 Serial No.(UC);10001 to 10010

HC-14C(1/2); SUB-CONTROL PANEL (SWITCH)

H C - 1 4 C (1 - 6 4 0 - 0 4 9 - 4 3)
TP 1 D - 2

551-1 REG GND REG GND 552-2 C1 0.022 552-3 REG GND REG + RV 552-4 REG +8V 551-2 REG +8V 552-5 REG +8V 552-6 KEY SERIAL COMMAND 552-7 KEY OUT(-) SS-48P,139-38A 551-3 INT KEY SERIAL STATUS 552-8 KY-210A,590-8 SS-48P,139-39B 551-4 KEY IN-1 L:KEY BOARD TEST 552-9 KY-210A,590-9 KEY TEST SS-48P,139-38B 551-5 552-10 IC1 MC68HC05N4-SC406673 MICRO COMPUTER VDD VSS 1 C 2 (7/7) SN74HC367ANS S1 CAPSTAN LOCK CSC2 T_{0.022} 4 7 R33 1 k 4 4 F PC1 GND 4 8 R34 1 k 7 PC2 2 R35 1 k PA5 PC3 PC7 PA6 R112 VPP PA7 5 **V** ♀ CS IOP 1 550-6 SS-48P,141-49B PB0 L:MENU SET UP SERIAL CLOCK 550-7 SS-48P,139-32A/TBC-18P,105-2A SERIAL TX 550-10 SS-48P,139-33B/TBC-18P,105-23B ≹ R12 4700 Q5 DTC123JU 550-9 SS-48P,139-33A/TBC-18P,105-23A SERIAL RX PB1 SET UP SET L:SET SW-444A,512-6 555-6 L:VITC LAMP ON 550-8 SS-48P,139-32B/TBC-18P,105-22A SERIAL READY L:SYSTEM RESET 550-11 SS-48P,139-39A/TBC-18P,105-22B CHARACTER L:OFF IC2(3/7) SN74HC367ANS OFF/ON PB3 L:OFF VITC/AUTO/LTC DOLBY NR OFF/ON IC2(4/7) SN74HC367ANS 2 0 R5 ₹ R6 ₹ R4 4700 ₹ 4700 ₹ 4700 RESET PB7 L:DOLBY ON PB4 IC2(6/7) IC2(5/7) SN74HC367ANS SN74HC367ANS L:REMOTE 9P PB6 SW-444A,512-1 555-1 L:LIMITER ON L:LIMITER ON CP1 HOURS METER N.C 555-5 G T1 T2 VDD T3 C1 3 9 1)(2)(3)(4)(5)(6) 3 3 D1 GL-5HD8T MENU LAMP PD4 SW-444A,512-3 555-3 L;AUTO OFF LAMP ON PD2 PD5 SW-444A,512-4 555-4 L; LTC LAMP ON 3 0 SW-444A,512-2 555-2 L;AUDIO NR LAMP ON PD1 PD6 R102 ¥ R25 ≱ R26 ≱ R27 ≱ R28 47k ≱ 47k ≱ 47k HC-14C BOARD (1/2) BOARD NO.1-640-049-43 Q2 DTC123JU Q1 DTC123JU Q4 DTC123JU PVW-2600P (EK);#11151-14285 PVW-2600P (UC);#10001-10010 LED DRIVER 16-46(b) Ε

HC-14C(2/2);SUB-CONTROL PANEL(TBC CONTROL)



HC-14C BOARD (2/2)

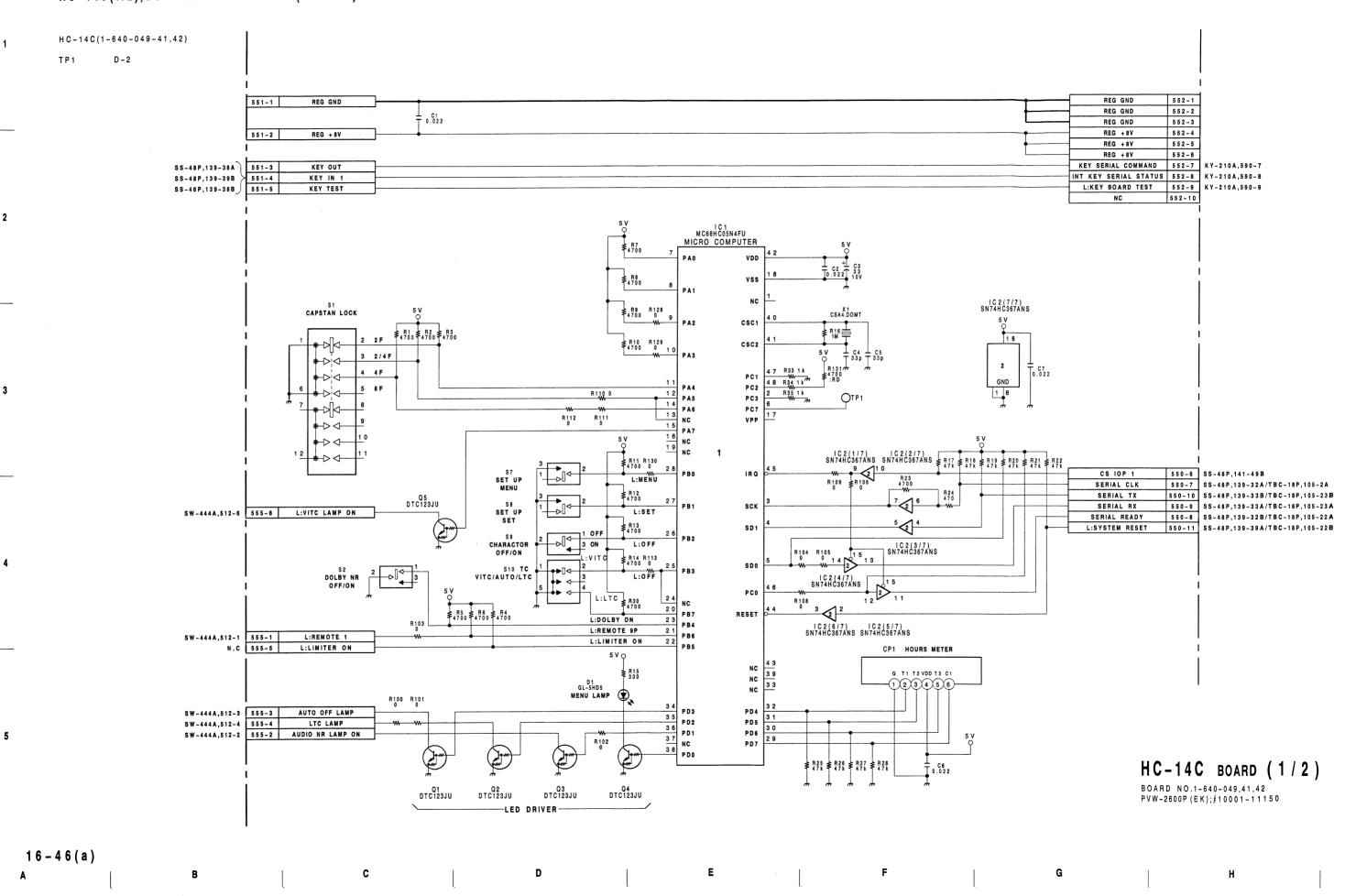
BOARD NO.1-640-049-43 PVW-2600P(EK);#1111511-14285 PVW-2600P(UC);#10001-10010

16-46(b)

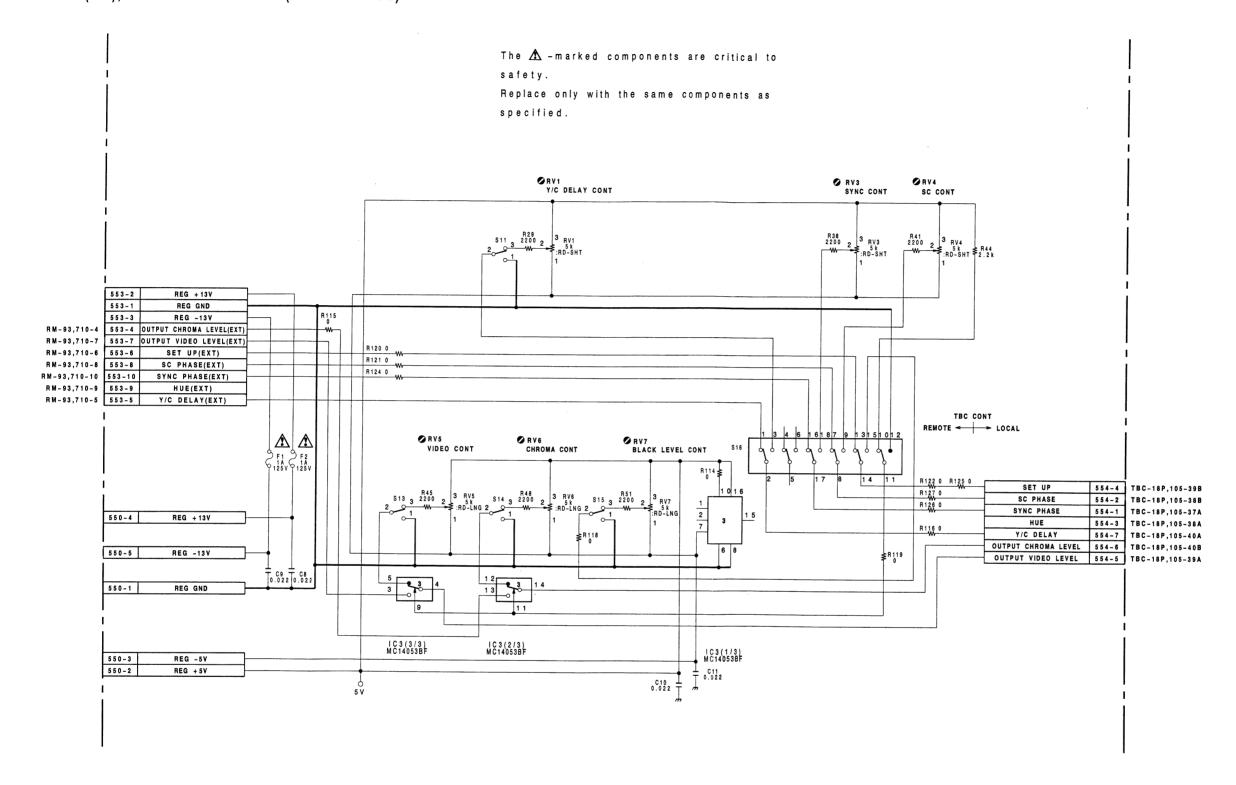
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Serial No.(EK);10001 to 11150

HC-14C(1/2); SUB-CONTROL PANEL (SWITCH)



HC-14C(2/2); SUB-CONTROL PANEL (TBC CONTROL)



HC-14C BOARD (2/2)

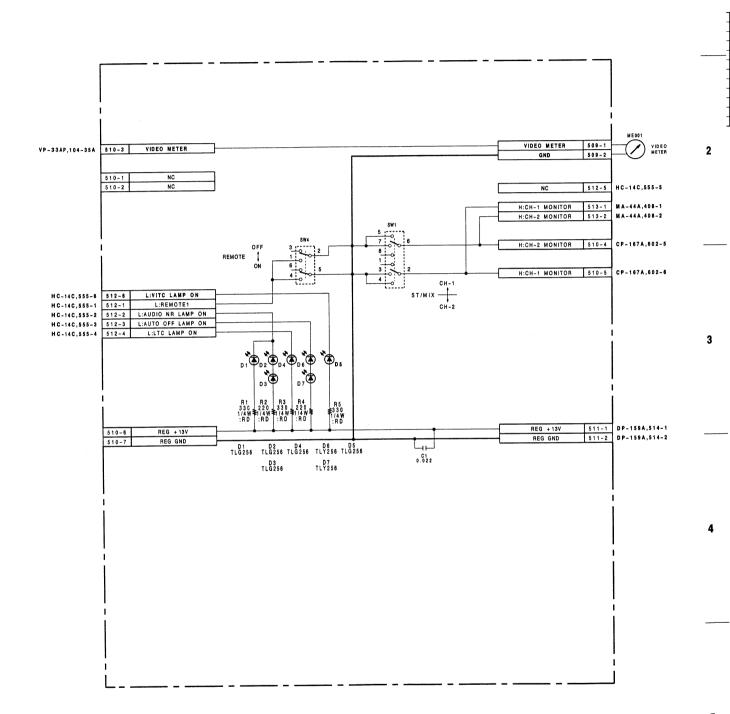
BOARD NO.1-640-049-41,42 PVW-2600P (EK);#10001-11150

16-46(a)

M

N

SW-444A; SELECT SWITCH, INDICATOR, RF/VIDEO LEVEL METER



SW-444A BOARD

BOARD NO.1-640-043-21 PVW-2600P (EK); #10001-PVW-2600P (UC); #10001-

16-47

K

16-48(b)

MB-322D(1/5); MOTHER BOARD(1/5)

						V	P-33AP								
	;				1				VP-33AP ((CN104)	(FRONT)	7			
		VP-33AP	(CN103	B) (REAR)			[A		В] -		
3		REG GND	1	REG GND	105-1 - 2	£ 8	3		REG GND	2	REG GND	106-1 · 2 · 3	- t -	208> 10	-37B YA PB RF
" 134 >	105-9A	REG GND CF ID REGEN	3	REG GND SCH DET	105-1 · 2 105-10A	4 1 6 0	3		REG GND	3	REG GND	106-1 · 2 · 3		207> 10	-36B YA PB RF
135	105-21A,139-27B	L;H SHIFT INH	4	ENC BLK	105-11A	-(1 6 1	13V-2		REG + 13V	4	REG +13V	106-4	□13V-2		-40B YB PB RF
136>	139-30B	VO 1st FIELD	5	HD	105-12B,139-		-13V		REG -13V	5	REG -13V	106-5			-39B YB PB RF
137>	203-7	U FIELD PULSE CHARA SIG	7	ENC CLAMP OUTPUT SYNC	105-12A 105-13A	√ 1 63 √ 1 64			NC NC	7	L;NO SIG	106-8B,140-50A	-(1 9 3		-18B CA PB RF
138	139-36B 139-36A	CHARA FRAME	8	VISC REGEN	105-14A	√ 1 6 5	187>	106-11B,141-41A	C SW PLS	8	Y SW PLS	106-12B,141-41B	1 9 4		-16B CB PB RF
		NC	9	L ALT	105-15A	≺1 6 6	188	106-13B,141-42A	C DO PLS	9	Y DO PLS	106-14B,141-42B 106-16B	─√ 1 9 5 ─√ 1 9 6	199> 10	-15B CB PB RF
140>	105-17A	VO FIELD O/E	10	P ALT GND	105-16A	4 1 6 7		106-36B 106-37B	Y PCM MUTE C PCM MUTE	10	TBC SPEED	106-17B,141-43A	√ 197		NC
° 141>	203-12	GND OUTPUT U-DUB Y(G)	11	OUTPUT U-DUB Y(X)	203-11	- 1 6 8	191>	106-20B,141-45A	L;REV/H;FWD	12	L;FWD/REV X13	106-19B,141-45B	- 1 9 8		NC
142>		OUTPUT U-DUB C(G)		OUTPUT U-DUB C(X)	203-9	≺ 1 6 9			NC		L; NOISE LESS PB	141-46B,105-35B	₹2 3 5		NC
1		GND	14	GND	203-13	4 170	-€		NC NC	14	NC CB PB RF(G)	150-8	-(199		
° 143≻ 144≻	203-14	OUTPUT TV(G)				4 171	ŀ		NC	16	CB PB RF(X)	150-7	-(200		
145>		OUTPUT VIDEO 2(G)		OUTPUT VIDEO 2(X)	203-3	-(1 7 2			NC	17	NC	ļ	4 2 0 1		
146>	203-2	OUTPUT VIDEO 1(G)		OUTPUT VIDEO 1(X)	203-1		-		NC NC	18	CA PB RF(G)	150-6	4 2 0 2		
147>	202-2	NC OUTPUT S-VIDEO Y(6	19 G) 20	NC OUTPUT S-VIDEO Y(X	202-1	- 174	}		NC	20	NC		1		
148>	202-6	OUTPUT Y(G)	21		202-5	-< 1 7 5	[NC	2 1	NC		-		
149>	202-8	OUTPUT R-Y(G)	22		202-7	√ 1 7 6	<u> </u>		NC NC	2 2	NC NC		1		
150>	202-10	OUTPUT B-Y(G) GND	2 3	OUTPUT B-Y(X)	202-9	4 177 e	<u> </u>		NC NC	24	NC NC		1		
° 151 ≻	202-4			OUTPUT S-VIDEO C(X	202-3	-< 178	į		NC	2 5	NC		4		
· 🗀		NC	2 6	NC			[NC NC	2 6	NC NC		1		
,,,	105-25A	NC REF C(G)	27	NC REF C(X)	105-25B	-(1 7 9	}		NC NC	28	NC NC		1		
152	105-25A	NC	2 9				•		NC	2 9	DEMOD Y(X)	106-42B	₹203		
153>	105-27A	U AXIS SC(G)	3 0	U AXIS SC(X)	105-27B	1 8 0	[NC NC	3 0	DEMOD Y(G)	106-43B	₹204		
154>	105-28A	V AXIS SC(G)	3 1	V AXIS SC(X)	105-28B	~ 181	}		NC NC	31	DEMOD C(X)	106-46B	-4 2 0 5		
155>	105-30A	TBC'd R-Y(G)	33	TBC' d R-Y(X)	105-30B	≺ 1 8 2	ŀ		NC	3 3	DEMOD C(G)	106-47B	√2 06		
156>	105-31A	TBC' d B-Y(G)	3 4	TBC' d B-Y(X)	105-31B	₹183		***	NC VIDEO METER	3 4	NC NC	 	1		
157>	105-32A	TBC'd Y(G)	3 5	TBC' d Y(X)	105-32B	₹184	192>	224-3	VIDEO METER NC	3 5	YA PB RF(G)	150-2	-(2 0 7		
<u> </u>		NC NC	3 7	NC NC			t		NC	3 7	YA PB RF(X)	150-1	- €208		
158>	141-48B,105-35A	H; VIDEO EE(DEMOD)) 38	L;METAL/H;OXIDE	141-37B,105-	36B,262-58 185	-		NC NC	38	NC YB PB RF(G)	150-4	4 209		
159>	141-44A	L;SLOW BID	3 9 4 0	NC NC			ŀ		NC NC	40	YB PB RF(X)	150-4	4 2 1 0		
-		NC NC	41				f		NC	41	NC		1		
-5 V - 2 ●		REG -5V	42	REG -5V	105-42 - 43		F		NC NC	4 2	NC NC		1		
-5V-2 ●		REG -5V REG +8V	43		105-42 - 43	-5 V	-2		NC NC	44	NC NC		1		
8 V D		REG +8V	45	REG +8V	105-44 - 45	—□8 V	İ		NC	4.5	NC		1		
5 V O		REG +5V	46	REG +5V	105-46 - 47	-05 V -05 V	_		NC NC	46	NC NC		1.		
5 V O		REG +5V REG GND	47	REG +5V REG GND	105-46 - 47		<u> </u>		REG GND	4 8	REG GND	106-48 • 49 • 50	€ →		
۳ ع		REG GND	4 9	REG GND	105-48 - 49 - 50	0	- to - 3		REG GND REG GND	4 9 5 0	REG GND REG GND	106-48 · 49 · 50 106-48 · 49 · 50	£ 4		
٣ الله		REG GND	5 0	REG GND	105-48 - 49 - 50		- 1		HEG GHD	1 1	u unb	1	` ر		
					_		7		- 2					~ ~	
	8 0 0 0 8	7 8 -	4 4	8 1 2 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	8 9 4 7 7 4 8 9 8 9 1 0 7 4 1 0 8 9 1 0 8		8 < 2 2 3	2 2 5 2 1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 4 2 1 3	Y 277		4 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4	
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161>	103-4B	ENC BLK	11 NC	С		1.	٢	,	NC	11	C SW PLS	104-8A,141-41A	- 1 8 7			NC	11
163>	103-6B	ENC CLAMP	12 HD		9-35B,103-5B	-< 1 6 2	J		NC NC	12	Y SW PLS C DO PLS	104-8B,141-41B 104-9A,141-42A	√194 √188			NC NC	1 2
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166>	103-9B	L ALT	15 VD	D 139-	9-35A	₹226	F	,	NC	1 5	NC			F	J	NC	15
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140>	103-10A	VO FIELD O/E	17 EXT SC		9-24A 9-31A	-C228	ŀ	·——	NC NC	18	NC	104-110,141-40	-	401>	200-2	R X (-)	1 8
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135>	139-32A,222-7 103-4A,139-27B	SERIAL CLK L;H SHIFT INH	20 SERIAL CS		9-34B 9-27A	- €230 -€231	J	,	NC NC	2 0	L;REV/H;FWD NC	104-12A,141-45A	191	292>	109-42B	NC AU STB 0	2 0
216	103-4A,139-27B		22 L;SYSTEM		9-39A,222-11	- €2 3 2	F	1	NC	2 2	H;SERVO LOCK	141-46A	₹241	273>	109-41A	AU STB 2	2 2
217>	139-33A,222-9	SERIAL RX	23 SERIAL		9-33B,222-10	₹233	J	,	NC NC	2 3	PB FP 2 PB FP 1	139-29A 139-29B	-⟨ 2 4 2 -⟨ 2 4 3	293	109-43B 105-17B	AU SCK EXT SC DET	2 3 2 4
152>	103-28A	NC REF C(G)	24 NC 25 REF C(3-28B	- (178	ŀ		NC NC	2 4	L;VISC EXT	139-28A	-Q44 -Q244	228>	100-110	NC NC	2 5
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155>	103-33A	TBC' d R-Y(G)	30 TBC'd R	R-Y(X) 103-	3-33B	√ 182	Г	,	NC NC	3 0	NC		_		105 108	NC NC	30 \
156>	103-34A 103-35A	TBC'd B-Y(G) TBC'd Y(G)	31 TBC'd B- 32 TBC'd Y		3-34B 3-35B	- √183 -√184	J	,	NC NC	3 1	NC NC	+	4	215	105-18B 105-20A,222-7		31
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500>	140-28B		34 REF SYI		1-43B	√ 234	J		NC NC	34	NC NC		4	226>	105-15B	NC VD	3 4 S
158>	103-38A,141-48B	H;VIDEO EE(DEMOD)	35 L;NOISELES 36 L;METAL/H;		1-46B,104-13B 3-38B,141-37B,262-58	√2 35 √1 85	ŀ	·———	NC NC	3 5	NC Y PCM MUTE	104-10A	- <189	139>	105-15B 103-8A	VD CHARA FRAME	3 6
218>	221-1	SYNC PHASE	37 NC	С			Г	,	NC	3 7	C PCM MUTE	104-11A	₹190	239>	106-9B	PB SYNC	3 7
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-5V-2 ● 8 V □	103-42 · 43 103-44 · 45		44 REG +8		9-44 - 45	-5 V - 2 □8 V)	·	NC NC	4.4	NC	104-005	-	8 V D	105-44 · 45		4.4
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· ·			SS-48P	SS-48P (CN141) (FRONT)	
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NC 11 NC 12 NC 13 NC 14 NC 15 NC 16	NC NC NC NC NC NC NC		NC 11 NC NC NC 12 NC NC NC 13 NC	352 282-9 SV DD 12 I/O RESET 262-8 353 262-11 SV D2 13 SV D1 262-10 354 262-13 SV D4 14 SV D3 262-12 355 262-15 SV D6 15 SV D5 262-14 408 262-17 EE PROM SCK 16 SV D7 262-16	-(4 3 3 4 - (3 3 4 4 3 5 4 4 4 3 5 4 4 4 4 3 5 4 4 4 4
TX(-) 17 17 20, RX(-) 18 205-4 OUTPUT T/C(G) 18 NC 20 09- AU STB 0 21	TX(+) 200-1 RX(+) 200-3 OUTPUT T/C(X) 205-3 PB LTC(G) 109-29A,109-29B PB LTC(X) 109-28B	-403 -404 -277 -288 -280 -291	NC 17 NC NC NC 18 NC NC NC 19 NC NC NC 19 NC NC NC 19 NC NC NC 21 NC NC 21 NC NC 21 NC NC 22 NC	409) 262-19 EE PROM S1 17 EE PROM S0 262-18 410) 262-21 EE PROM CS0 18 EE PROM BUSY 262-20 411) 262-23 EE PROM CS2 19 EE PROM CS1 262-22 412) 262-25 TAPE BIGIN 20 TAPE END 262-24 413) 262-27 T-REEL CURRENT 21 S-REEL CURRENT 262-26 414) 262-29 DRUM CURRENT 22 CAPSTAN CURRENT 262-28	4.34 4.35 4.36 4.37 4.38 4.39
NC 25 NC 26 05- H:IN PHASE 27	AU SO 109-43A EXT SYNC DET 105-16B NC NC L:H SHIFT INH 103-4A,105-21A	-€274 -€227	NC 23 NC NC 24 NC NC 25 NC	15 282-31 CC UP/DOWN CURRENT 23 LOADING CURRENT 282-30	-(440 (441 -(442 (443 (444 (445
05-18B REF 1ST FIELD 31 4,22° 7 SERIAL CLOCK 32 4,22 SERIAL RX 33	VO-4ST FIELD 103-SA NC SERIAL READY 105-22A,222-8 SERIAL TX 105-23B,222-10	-243 -√138 216 -233 -230	NC 28 NC NC 30 NC NC 31 NC NC 32 NC NC 33 NC NC 34 NC	421) 282-43 DRUM DRIVE 29 CAPSTAN DRIVE 282-42 422) 282-45 LOAING FG 30 TENSION SENSOR VCC 282-44 423) 282-47 DRUM PG 31 DRUM FG 262-48 424) 282-49 S-REEL FG 2 32 S-REEL FG 1 282-48 425) 282-51 T-REEL FG 2 33 T-REEL FG 1 282-50 426) 282-53 CAP FG B 34 CAP FG A 282-52	-(446 -(447 -(448 -(449 -(450 -(451
VD 35 103-9A CHARA FRAME 36 106-9B PB SYNC 37 22 KEY OUT 38 222 L:SYSTEM RESET 39	HD 103-5B,105-12B CHARA SIG 103-7A NC KEY TEST 223-9 KEY IN 1 223-8	√138 √405 √402	NC 35 NC NC NC 38 NC NC NC 38 NC NC NC 37 NC NC NC 38 NC NC NC 39 NC NC NC 40 NC	427	452 453 2-58 454 454
NC 40 NC 41 i-42-43 REG -5V 42 i-42-43 REG -5V 43 i-44 REG -8V 44 i-44 REG +8V 45	REG -5V 293-7 REG +8V 293-6 REG +8V 293-6		NC 41 NC NC NC 42 NC NC NC 43 NC NC NC A4 NC NC NC NC A4 NC NC NC A5 NC NC NC A5 NC	187	-(194 -(195 -(234 -(246 -(198 -(235
1-46 7 REG +5V 46 1-46 47 REG +5V 47 1-49 50 REG GND 49 1-40 0 REG GND 50	F1 1.25A	— ○5 V — ○5 V ∞ — — — — — — — — — — — — — — — — — — —	NC 47 NC NC NC 48 NC NC L; NO SIG 50 NC	245 106-268 H:CHROMA NUTE 47 NC	-<158 -<457 -<458
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CS 10P 1 101 SERIA 10 SERIAL READY 165 SERIAL RY 105 SERIAL RY 105 L:3YSTEM RESET 105	REG GND 104-1 REG GND 104-1 REG SND 103-4 REG +8V 103-4 KEY OUT 138-33 KEY TEST 138-33 KEY TEST 138-33	E E E E E E E E E E E E E E E E E E E	+ 55V - 58 GND GND C C C C C C C C C C	REG GND REG GND REG GND REG GND NC	
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1-01 -01 -1-01 -1-1-1 -1-1-1 -1-1-1 -1-1-1 -1-1-1	A1 - 0 H	17- MS 17- MS 17- MS 17- MS 17- MS 17- MS	VR-11 VR-11 VR-11 VR-11 VR-11		PVW-2600P(EK);#11681- PVW-2600P(UC);#10001-
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Serial No.(EK);11681 and higher Serial No.(UC);10001 and higher
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MB-322D(3/5); MOTHER BOARD(3/5)

16-50(b)

В

M B - 3 2 2 D (3/5) M B - 3 2 2 D (3/5)

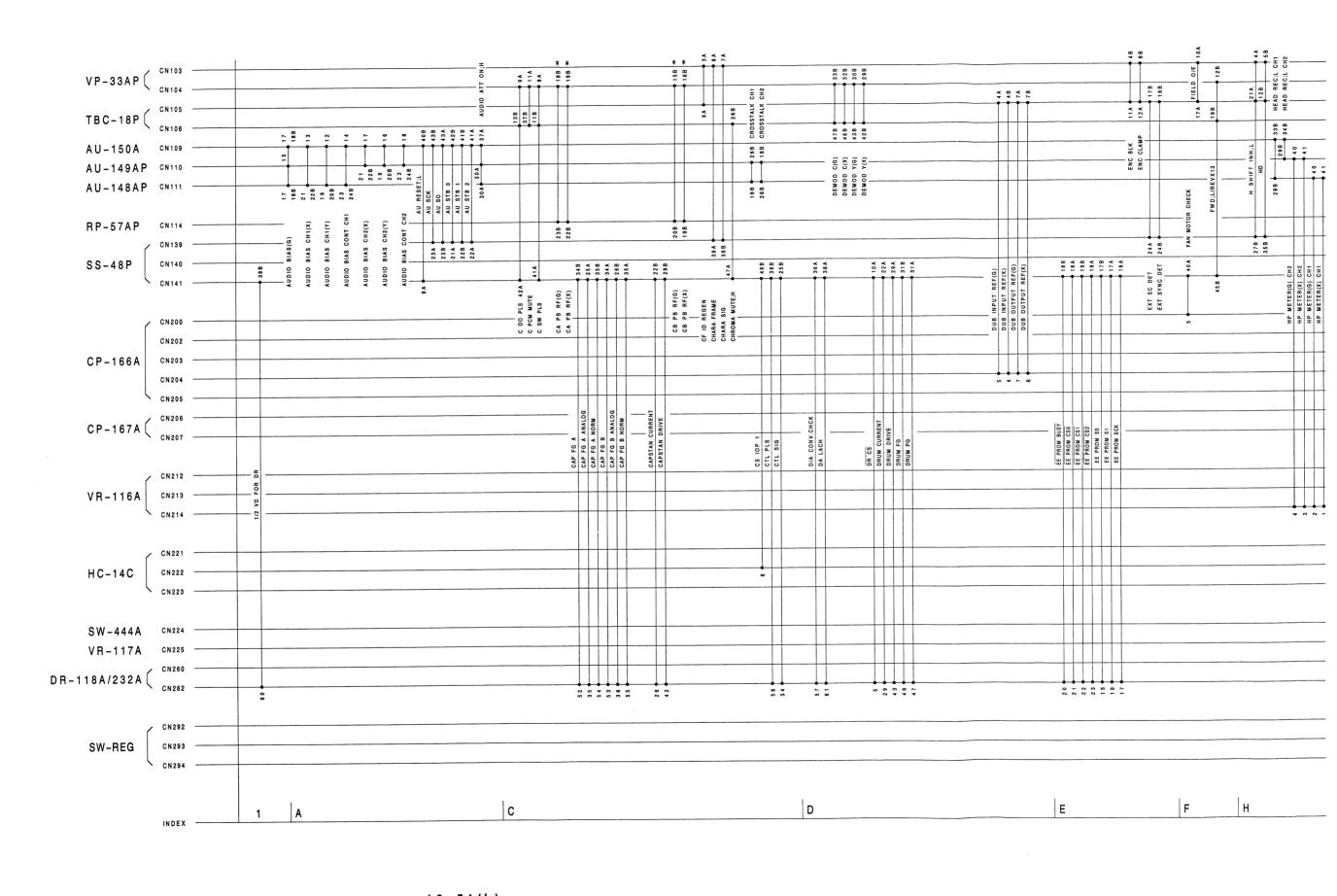
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3	111-1-2	REG GND	2	REG GND	292-3 · 4			3		REG GND	2	REG GND	110-1 - 2	□ -€
5 V - 2 O	111-3	REG +5V	3	REG +5V	292-2		O5V-2	5 V - 2 O		REG +5V REG +8V	3	REG +5V REG +8V	110-3	
8 V - 2 □ - 5 V •	111-4	REG +8V	5	REG +8V	292-1			8 V ~ 2 □ - 5 V ●		REG -5V	5	REG -5V	110-5	
-344		NC	6	NC						NC	6	NC		
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		NC	10	NC				258>		CH2 T/C CROSSTALK	(X) 10	CH2 T/C CROSSTALK(X) 110-11B	₹258
3		GND(RE)	11	NC			-	259>	111 10.200	GND CH1 AUDIO BIAS(11 V) 12	GND CH1 AUDIO BIAS(Y)	111-19·20B	₹ 259
1		GND(RE)	12	NC NC	+		1	260		CHI AUDIO BIAS		CH1 AUDIO BIAS(X)		₹260
		NC	14	NC				261>		CH1 AUDIO BIAS CO		CH1 AUDIO BIAS CONT		₹261
3 —		GND(RE)	15	GND(RE) NC	-		_ - - - - - - - - - - - - -	262 > 263 >	110-17 · 18B,111-17 · 18B	CH2 AUDIO BIAS(G)	15 Y) 16	AUDIO BIAS(G) CH2 AUDIO BIAS(Y)	110-17 · 18B,111-17 · 18B	√ 2 6 2 √ 2 6 3
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		NC	18	NC			7	265>	110-23 · 24B	CH2 AUDIO BIAS CO		CH2 AUDIO BIAS CONT	T 110-23 · 24B	₹265
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		NC NC	3 0	NC GND	 		-	-		NC NC	3 0	NC L;CH1 REC	111-28B	- (2 8 2
-		NC	3 2	NC			Ⅎ`	l		NC	3 2	L;CH2 REC	110-28B	₹283
		NC	3 3	YB PB RF(X)	151-3		≺392	269>	110-28A,111-28A	L;NR ON	3 3	H;CH1 HEAD REC	111-29B 110-29B	√ 284 √ 285
•		NC GND	3 4	YB PB RF(G) GND	151-4		√ 393 —€	270>	111-29A		_	H;CH2 HEAD REC H;CH2 PB MUTE	110-29B	- C2 8 6
		NC	3 6	YA PB RF(X)	151-1					NC	3 6			₹287
		NC	37	YA PB RF(G)	151-2		≺395	271	110-30A,111-30A	H;AUDIO ATT ON	37	H;SLOW EQ ON	110-31B,111-31B 111-35B	₹ 2 8 8 ₹2 8 9
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ļ		NC NC	41	NC NC	-		4	273>	139-22A	AU STB 2	41	AU STB 1 AU STB 0	139-22B 139-21A	√ 291 √ 292
-		NC NC	43	NC NC	+		1	274>	139-23B		43	AU SCK	139-23A	-C293
-13V ■	111-44 - 45	REG -13V	44	REG -13V	294-4			-13V ■		REG -13V	4 4	REG -13V	110-44 • 45	
-13V ■ 13V-2 □	111-44 · 45 111-46 · 47	REG -13V REG +13V	45	REG -13V REG +13V	294-4		■-13V 	-13V ■	·	REG -13V REG +13V	4 5	REG -13V REG +13V	110-44 · 45 110-46 · 47	-13V □13V-2
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	93-8	203-2,3,4 203-2,3,4 203-7 204-5 294-4	94-3			41-98	141-9A 141-10B 141-11B 141-11A	41-128 41-12A 41-138 41-13A 41-148	4 - 158 4 - 168 4 - 168 4 - 178 4 - 178 4 - 178 4 - 188 4 - 198	41-19A 41-20B 41-20A 41-21B 41-21A 41-22B	41-23B 41-23A 41-24B	4 - 24 A 4 - 25 B 4 - 25 A 4 - 26 B 4 - 26 A 4 - 27 B 4 - 27 A	141-28A 141-29B 141-30B 141-30A 141-31B 141-31A 141-32A 141-32A 141-32A	41-33A 41-34B 41-35B 41-35B
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	80	2 2 2 2 2	5 6 6			12 2	0 0 0 0	80 80 8	0 0 0 B B B B B B B B B B B B B B B B B	80 0 8 0 B B B B B B B B B B B B B B B B	DR O	8 8 8 8 8 8 8	8 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	80 0 8 8 9

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1		-1 :					G) 109-9	4 257				10 CH1 T	T/C CROSSTALK(G)			
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10 10 10 10 10 10 10 10		- 1 '	95	111-38					299>	110-38	CH1 INSERT CROSSTALK(G)	13 CH1 IN	SERT CROSSTALK(X)	110-39	─√ 3 0 0	
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	2 39-20B					0 L;METAL/H;OXIDE(A	U) 109-36B,111-30B	₹287			H;AUDIO ATT ON	30 L;ME	TAL/H;OXIDE(AU)	109-36B,110-30B	- €287	
11		₹282							-						₹309	
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			296>	212-2	CH2 PB/EE(G) 3	3 CH2 PB/EE(X)	212-1	₹307	309>	213-2	CH1 PB/EE(G)	33 C	H1 PB/EE(X)			
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1			297>		CH2 PB(G) 3	6 CH2 PB(G)	212-4									
11-19 19-14										110-12B · 13A · 14B	CH2 INSERT CROSSTALK(G)	38 CH2 IN	NSERT CROSSTALK(G)	110-12B · 13A · 14B	₹295	
##	-358	3	300>	111-13B	CH1 INSERT CROSSTALK(X)	9 CH1 INSERT CROSSTALK	(X) 111-13B									
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MB-322D BOAD NO.1-64-0-6 PVW-260PP (US.):f1 BOS COSD 111-41-41-12 BOS COSD 111-41-12 BOS COSD 111-41-41-12 BOS COSD 111-41-41-12 BOS COSD 111-41-12 BOS COSD 111-41-41-12 BOS	-4 9 · 50	·	1									49	REG GND	114-48 - 49 - 50		
MB-322D 11-11/1-101			<u> </u>					-ŧ	→	110-48 - 49 - 50	REG GND	50	REG GND	114-48 - 49 - 50		
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MB-322D STATE STA	141-29A 141-30A 141-31B 141-32B 141-32A 141-32B	141-334 141-348 141-358 141-368 141-368 141-364	141-38B		141	114-1:2	141-408	139-46		200-6,2 260-7. 260-9 200-7.2 141-5,1	2				 	
MB-322D NB-302-1-1 NB-302-1 NB-302-1-1 NB-302-1-1 NB-302-1-1 NB-302-1-1 NB-302-1-1 NB-302-1 NB-302-	B - 2 -	A A B B B B B B B B B B B B B B B B B B	80				<u>.</u>	000>>>		16V 3V 3V	9					
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PVW-2600P (U C);#1	302-43 302-45 302-45 302-46 302-48 302-49 302-60	302-51 302-52 302-53 302-53 302-54 302-56 302-57 302-58	302-59 302-60 302-61 302-63 302-64		REG	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HEG.3-7	REG,3-6 REG,3-6 REG,3-2 REG,3-1 REG,3-1		REG,4-4 REG,4-6 REG,4-5 REG,4-3 REG,4-1	7 REG.4-2					BOARD NO.1-640-038-23
16-50(b)	0 8 R R R R R R R R R R R R R R R R R R	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8, 0 0 8, 0 0 8,		**	*	MS	MS MS		MS MS MS	Δ					PVW-2600P (EK);#11681- PVW-2600P (UC);#10001-
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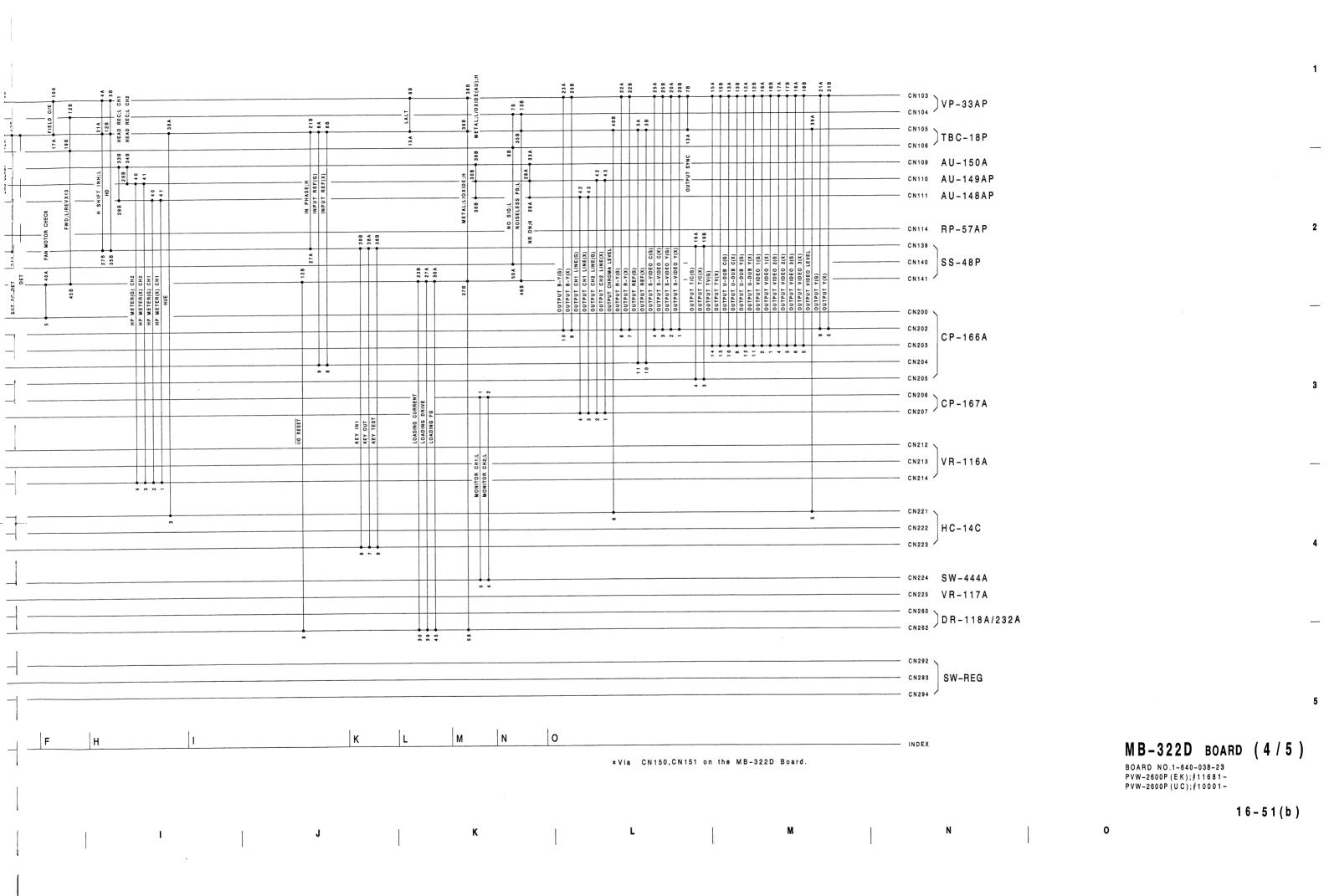
ARD (3/5)

Serial No.(EK);11681 and higher Serial No.(UC);10001 and higher

MB-322D(4/5); MOTHER BOARD



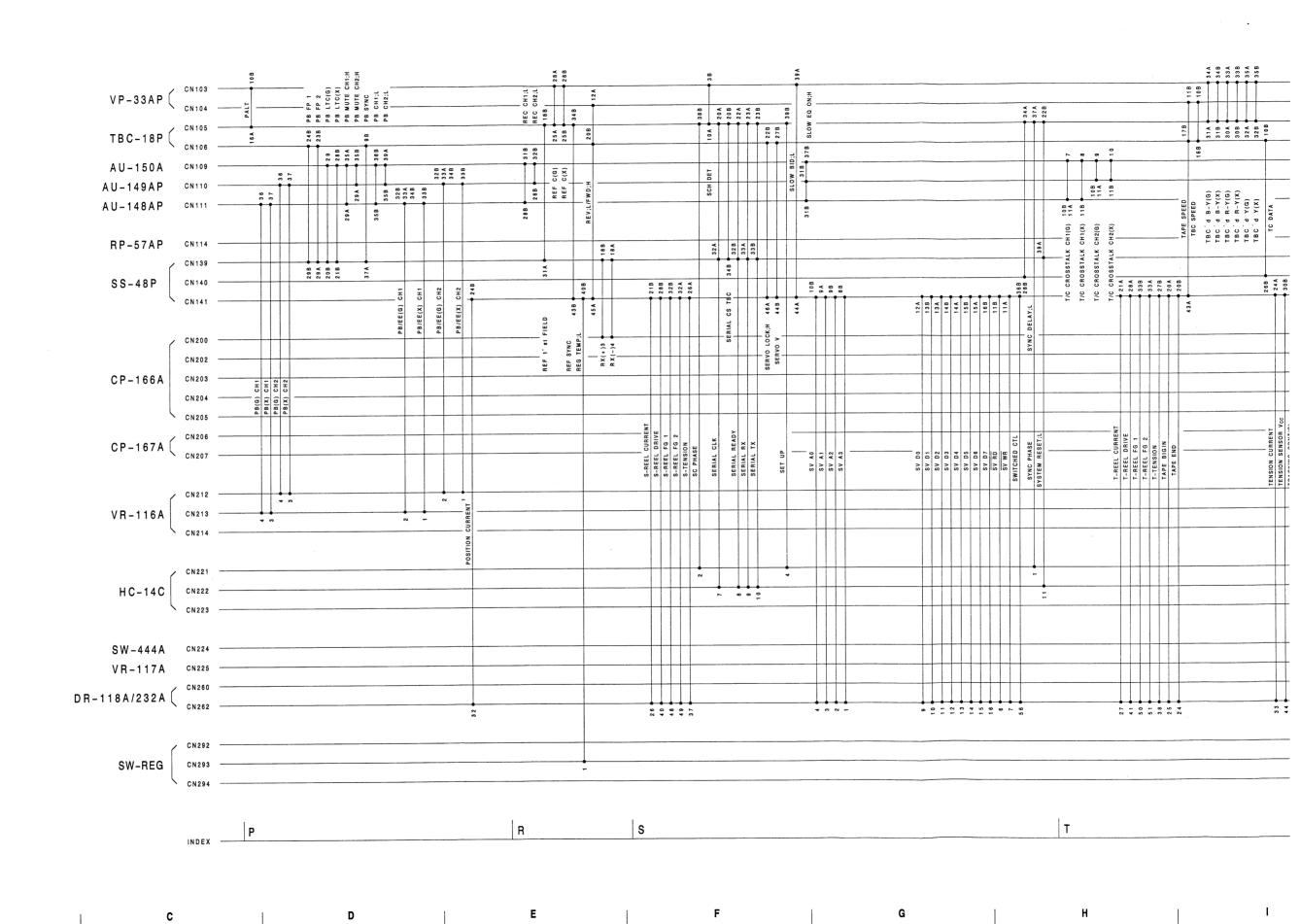
16-51(b) B C D E F G H



Serial No.(EK);11681 and higher Serial No.(UC);10001 and higher

MB-322D(5/5);MOTHER BOARD

16-52(b)



178 31A 31A 31A 31A 31A 31A 31A 31A 31A 31A	27 A	12 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	46 4 46 46 46 46 47 47 47 47 47 47 47 47 47 47 47 47 47	-~ e 8 ~ 0	0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	- CN103 - CN104 VP-33AP - CN105 TBC-18P
© X ® X	U AXIS SC(G) U AXIS SC(G) V AXIS SC(G) V AXIS SC(G) V AXIS SC(G) V AXIS SC(TX) V AXIS		2 4 4 6	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4 9	- CN109 AU-150A - CN110 AU-149AP - CN111 AU-148AP
	2 8 A V V V V V V V V V V V V V V V V V V	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 4 6 6 7 4 4 6 6 7 4 6 6 6 7 4 6 6 6 7 4 7 6 6 7 7 7 7		7 4 W	- CN114 RP-57AP - CN139 - CN140 SS-48P
2 2 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 OFFICE PULSE	Y DD PLS Y SW PLS Y/C DELAY Y/A PB RF(G) Y PB RF(G) Y PB RF(G) Y PB RF(G)	6	1	vo	- CN141 - CN200 - CN202 - CN203 - CN204 - CN204
T-REL. ABILLE T-REL. FG 2 T-REL. FG 2 T-FENSION TAPE BIGIN TRACKING CONT(X) TRACKING CONT(X) TRACKING CONT(X)	EO METER		7	0	uo .	CN205 CP-167A
1 T T T T T T T T T T T T T T T T T T T	VIDEO					CN212 CN213 VR-116A
			4.5.4	- C	0 00	CN221 CN222 CN223 HC-14C
			- vo	2,3		CN224 SW-444A CN225 VR-117A CN260 DR-118/232A
7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			- N	2,3,4 3,4		CN262 - CN292 - CN293 - CN293 - CN294
	U V	Y U	NREG REG REG REG +18V +13V +8V +5V	REG UNREG R GND GND -	EG REG UNREG 5 V -13 V -16 V	· INDEX
			* Via CN150,CN151 on		6 - 5 2 (b)	-

MB-322D BOARD (5/5)

BOARD NO.1-640-038-23 PVW-2600P (EK);#11681-PVW-2600P (UC);#10001-

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Serial No.(EK);10001 to 11680

MB-322A(1/5); MOTHER BOARD(1/5)

		VP-33AP (CN103) (REAR)]	_	,	****	VP-33AP	(CN104) (
, –		A REG GND	1	B REG GND	105-1 · 2	3			A REG GND	1	F
, a		REG GND	2	REG GND	105-1 - 2		, j		REG GND	2	F
ω 134 >	105-9A	CF ID REGEN	3	SCH DET	105-10A	1 6 0	13V-2		REG GND	3	F
135>	105-21A,139-27B	L;H SHIFT INH	4	ENC BLK	105-11A	1 6 1	13V-2		REG +13V	4	R
136	139-30B 203-7	VO 1st FIELD U FIELD PULSE	5	HD ENC CLAMP	105-12B,139-35B 105-12A	√ 1 6 2 √ 1 6 3	-13V		REG -13V	5	R
138	139-36B	CHARA SIG	7	OUTPUT SYNC	105-12A	164	ŀ		NC NC	7	L
139>	139-36A	CHARA FRAME	8	VISC REGEN	105-14A	1 65	187>	106-11B,141-41A	C SW PLS	8	Y
		NC	9	LALT	105-15A	≺166	188>	106-13B,141-42A	C DO PLS	9	Y
140>	105-17A	VO FIELD O/E GND	11	P ALT GND	105-16A	1 67 .	, 189 > 190 >	106-36B 106-37B	Y PCM MUTE	10	TAI
ش ₁₄₁	203-12	OUTPUT U-DUB Y(G)	12	OUTPUT U-DUB Y(X)	203-11	√ 168	191>	106-20B,141-45A	L;REV/H;FWD	12	L;FW
142>	203-10	OUTPUT U-DUB C(G)	1 3	OUTPUT U-DUB C(X)	203-9	- <169 a	:		NC	1 3	L;NOI
3	******	GND	1 4	GND OUTPUT TV(X)	******	///	ŧ		NC NC	1 4	СВ
144	203-14	OUTPUT TV(G) OUTPUT VIDEO 3(G)	16	OUTPUT VIDEO 3(X)	203-13	1 70	-		NC NC	16	CB
145>	203-4	OUTPUT VIDEO 2(G)	17	OUTPUT VIDEO 2(X)	203-3	- (172			NC	17	
146>	203-2	OUTPUT VIDEO 1(G)	18	OUTPUT VIDEO 1(X)	203-1	1 7 3			NC	18	CA
147	202-2	NC OUTPUT S-VIDEO Y(G)	19	NC OUTPUT S-VIDEO Y(X)	202-1	4 174	-		NC NC	19	CA
148	202-2	OUTPUT S-VIDEO Y(G)	21	OUTPUT Y(X)	202-1	- 174 - 175	H		NC NC	2 1	
149>	202-8	OUTPUT R-Y(G)	2 2	OUTPUT R-Y(X)	202-7	√ 176			NC	2 2	
150>	202-10	OUTPUT B-Y(G)	2 3	OUTPUT B-Y(X)	202-9	177 m			NC	2 3	
ψ 151 >	000 4	GND OUTPUT S-VIDEO C(G)	2 4	GND OUTPUT S-VIDEO C(X)	202-3	₹ 178	-		NC NC	2 4	
1317	202-4	NC NC	2 6	NC	202-3	┤``	H		NC NC	2 6	
		NC	2 7	NC]			NC	27	
152>	105-25A	REF C(G)	2 8	REF C(X)	105-25B	1 7 9			NC	2 8	
153>	105-27A	NC U AXIS SC(G)	2 9 3 0	NC U AXIS SC(X)	105-27B	180	+		NC NC	30	DEI
154>	105-28A	V AXIS SC(G)	3 1	V AXIS SC(X)	105-28B	- (181	F		NC	31	
		NC	3 2	NC]	Į		NC	3 2	DEI
155	105-30A	TBC' d R-Y(G)	3 3	TBC' d R-Y(X)	105-30B	√ 182	F		NC NC	3 3	DE
156	105-31A 105-32A	TBC'd B-Y(G)	3 4	TBC'd B-Y(X) TBC'd Y(X)	105-31B 105-32B	─ √ 1 8 3 ─ √ 1 8 4	192>	224-3	NC VIDEO METER	3 4	
13/7	100-012	NC NC	3 6	NC NC	100-025	1 ````	1027	224-0	NC NC	36	YA
		NC	3 7	NC		1			NC	3 7	YA
158>	141-48B,105-35A	H; VIDEO EE(DEMOD)	3 8	L;METAL/H;OXIDE	141-37B,105-36B,262-58	√ 1 8 5			NC	3 8	
159>	141-44A	L;SLOW BID NC	3 9 4 0	NC NC		-	-		NC NC	3 9	Y B
		NC	41	NC		1	F		NC NC	41	
-5 V - 2 ●		REG -5V	4 2	REG -5V	105-42 · 43	-5 V -	2		NC	4 2	
-5V-2 ●		REG -5V	4 3	REG -5V	105-42 · 43	-5V-	2		NC	4 3	
8 V D		REG +8V REG +8V	4 4	REG +8V REG +8V	105-44 · 45 105-44 · 45	□8 V □8 V	-		NC NC	4 4	
5 VO-		REG +5V	4 6	REG +5V	105-46 - 47	-05 V	-		NC	46	
5 V O		REG +5V	47	REG +5V	105-46 - 47	o5 v			NC	47	
" 		REG GND REG GND	48	REG GND REG GND	105-48 · 49 · 50		8 3		REG GND REG GND	48	RI
° + -		REG GND	50	REG GND	105-48 - 49 - 50	 			REG GND	50	RI
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	1111	294-1	Y(X) 103-20B Y(G) 103-20A	C(S) 103-258 C(G) 103-25A 103-218 103-21A 103-228 S) 103-228 S) 103-228 G) 103-228 G) 103-238	(X) 103-188 1(0) 103-18 2(X) 103-178	3(X) 103-16B 3(G) 103-16A 1E 103-6A	C(X) 103-1 C(G) 103-13B C(G) 103-13A Y(X) 103-12A Y(G) 103-12A) 103-15B		103-50 103-43 103-45 103-48	+++	X) 105-6B 3) 105-6A) 105-3B
	CM200 TX(+) 1 TX(+) 2 TX(-) 3 TX(+) 4 TX(+) 4 TX(+) 5 TX(+) 5 TX(+) 5 TX(+) 5 TX(+) TX(+) 5 TX(+) TX(+) 5 TX(+) TX(+)		1 OUTPUT S-VIDEO 2 OUTPUT S-VIDEO	3 OUTPUT S-VIDEO C(X) 4 OUTPUT S-VIDEO C(G) 5 OUTPUT Y(X) 6 OUTPUT R-Y(X) 7 OUTPUT R-Y(X) 8 OUTPUT R-Y(X) 10 OUTPUT B-Y(X)	2000		9 0UTPUT U-DUB C(X) 10 0UTPUT U-DUB C(G) 11 0UTPUT U-DUB Y(G) 12 0UTPUT U-DUB Y(G) 13 0UTPUT TY(X) 14 0UTPUT TY(G)		CN204 1 REG GND 2 REG -SV 3 REG +8V 4 DUB INPUT REF(X)	1 - 1 - 1	8 OUTPUT REF(X) 9 OUTPUT REF(G) 10 INPUT REF(X)
	RM-83A,700-7 RM-83A,700-6 RM-83A,700-5 RM-83A,700-4 RM-83A,700-3	RM-93A,700-1 RM-93A,700-1	2P-166A,653-1	CP-166A,653-4 CP-168A,653-4 CP-168A,653-5 CP-168A,653-6 CP-168A,653-9 CP-168A,653-9 CP-168A,653-9 CP-168A,653-10	CP-168A, 654-1 CP-168A, 654-2 CP-168A, 654-2 CP-168A, 654-3	2P-166A,654-5 2P-166A,654-6 3P-166A,654-7	CP-186A,654-9 CP-166A,654-10 CP-166A,654-11 CP-166A,654-12 CP-166A,654-13 CP-166A,654-14		CP-168A,650-1 CP-166A,650-2 CP-166A,650-3 CP-166A,650-4	P-166A,650-7	CP-166A,650-8 CP-166A,650-9 CP-166A,650-10

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VP-33AP	(CN104)	(FRONT)] +				i	i			i
REG GND	1	REG GND	106-1 · 2 · 3]	. —			CN 150	CN151	V4 BB BF/V)	144.000	
REG GND	2	REG GND	106-1 · 2 · 3	£ +	208	104-37B 104-36B	YA PB RF(X) YA PB RF(G)	1 2	 1 1	YA PB RF(X) YA PB RF(G)	114-36B 114-37B	₹394 ₹395
REG GND	3 4	REG GND REG +13V	106-1 · 2 · 3	□13V-2	210	104-40B	YB PB RF(X)	13	 3	YB PB RF(X)	114-33B	₹392
REG -13V	5	REG -13V	106-5		209>	104-39B	YB PB RF(G)	4	 4	YB PB RF(G)	114-34B	₹393
NC	6	NC		┨.	202>	104-19B	CA PB RF(X)	- 5	 1:1	CA PB RF(X) CA PB RF(G)	114-22B 114-23B	₹ 386 ₹387
NC NC	7	L;NO SIG	106-8B,140-50A 106-12B,141-41B	193	201>	104-18B 104-16B	CA PB RF(G) CB PB RF(X)	6 7	 7	CB PB RF(X)	114-23B	
B -41A C SW PLS	8 9	Y SW PLS Y DO PLS	106-12B,141-41B	195	199	104-15B	CB PB RF(G)	1	- 8	CB PB RF(G)	114-20B	-<385
J-36B Y PCM MUTE	10	TBC SPEED	106-16B	1 96			NC	,	 9	NC		
106-37B C PCM MUTE	11	TAPE SPEED	106-17B,141-43A	₹197	-		NC NC	10	10	NC NC	 	
B,141-45A L;REV/H;FWD	12	L;FWD/REV X13 L;NOISE LESS PB	106-19B,141-45B 141-46B,105-35B	-≺198 -≺235	-		NC NC	12	 12	NC		
NC NC	14	NC	141-405,103-335	1 ```								
NC	15	CB PB RF(G)	150-8	199				1	1			!
NC NC	16	CB PB RF(X)	150-7	~ 200								!
NC NC	17	NC CA PB RF(G)	150-6	≺ 201				- 1				
NC	19	CA PB RF(X)	105-5	- ₹202				┖	 ┙			
NC NC	2 0	NC		4								
NC NC	21	NC NC		1								i
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NC NC	2 6	NC NC	 	1								ļ .
NC	2 8	NC].								!
NC NC	2 9	DEMOD Y(X)	106-42B	₹ 203 ₹ 204								
NC NC	3 0	DEMOD Y(G)	106-43B	1 ```						-		
NC NC	3 2	DEMOD C(X)	106-49B	₹205								89
NC	3 3	DEMOD C(G)	106-47B	₹208								1
NC 224-3 VIDEO METER	3 4	NC NC		1								1
224-3 VIDEO METER	36	YA PB RF(G)	150-2	₹207								
NC	3 7	YA PB RF(X)	150-1	₹208								
NC NC	3 8	NC	150-4	₹209								 -
NC NC	40	YB PB RF(G) YB PB RF(X)	150-4	210								!
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REG GND	48	REG GND	106-48 • 49 • 50									
REG GND	50	REG GND	106-48 - 49 - 50									į.
				_								1
CN204	5 DUB INPUT REF(G) 105-4A 6 NC 7 NC	CP-16A,650-6 6 OUTPUT REF(X) 105-8B <224 CP-16A,650-9 0 OUTPUT REF(X) 155-3A <224	CP-166A, 655-2 2 NC CP-166A, 655-2 2 NC CP-166A, 655-3 3 OUTPUT TIC(X) 139-188	(5)51.50.100.100.100.100.100.100.100.100.10		CP-167A,602-6 1 H:CH1 MONITOR 224-5 (463 CP-167A,602-6 2 H:CH2 MONITOR 224-4 (464 CP-167A,602-3 REG GND 109-80 CP-167A,602-3 4 REG 419V 109-44 (194 CP-167A,602-2 5 REG -13V 109-44 (195 CP-167A,602-1 6 RC HC 110 CP-167A,602-1 6 RC HC HC 110 CP-167A,602-1 6 RC HC 110 CP-167A,602-1 6 RC HC 110 CP-167A,602-1 6 RC HC 110 RC HC 110 CP-167A,602-1 6 RC HC 110 RC HC 110 RC HC HC 110 RC HC HC 110 RC HC	CN207 1 OUTPUT CH2 LIME(X) 110-43	CP-167A,603-2 3 OUTPUT CH3 LINE(4) 110-42 (303 CP-167A,603-4 4 OUTPUT CH1 LINE(4) 111-42 (316 CP-167A,603-5 5 NC				

B-322A BOARD (1/5)

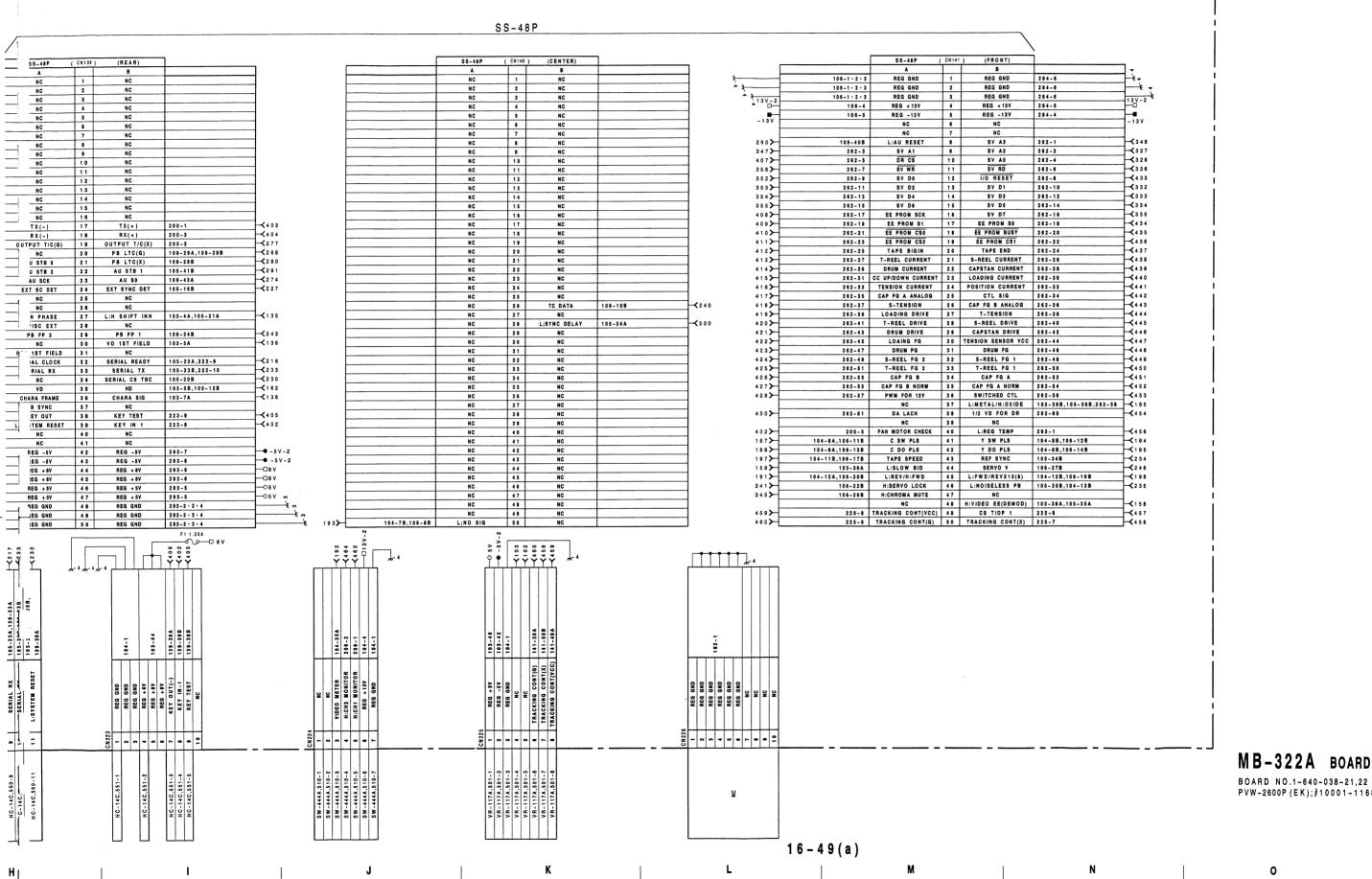
ARD NO.1-640-038-21,22
/-2600P (EK):#10001-11680

16-48(a)

MB-322A(2/5); MOTHER BOARD(2/5)

16-49(a)

						ТВ	C-18P										
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		/ TBC-18	(CN105) (REAR)	٦	_	_		TBC-18	(CN106)		ì	_	,		SS-48P	(CN
,	103-1 • 2	A REG GND	1	B REG GND	139-1 · 2	- " "	1	104-1-2-3	REG GND	1	REG GND	141-1 · 2 · 3	4			A NC	\pm
2	103-1 - 2	REG GND	2	REG GND	139-1 - 2		* 3	104-1 - 2 - 3	REG GND	2	REG GND	141-1 · 2 · 3	₹ +	F		NC NC	
ω 213 > 212 >	204-11	INPUT REG(G) DUB INPUT REF(G)	3 4	INPUT REF(X) DUB INPUT REF(X)	204-10	—<224 —<223 m	**	104-1 · 2 · 3	REG GND REG + 13V	3 4	REG GND REG + 13V	141-1 - 2 - 3	13V-2			NC NC	
3		GND	5	GND		₹222	13V-2 -13V	104-5	REG -13V	5	REG -13V	141-5	—■ -13V	-		NC NC	\dashv
° 21 1 > -	204-9	OUTPUT REF(G) DUB OUTPUT REF(G)	6 7	OUTPUT REF(X) DUB OUTPUT REF(X)	204-8				NC	7	NC		1.	ļ		NC	
°134 >	103-3A	GND CF ID REGEN	8	GND NC			-		NC NC	8 9	L;NO SIG PB SYNC	104-7B,140-50A 139-37A	≺ 193 ≺ 239	1		NC NC	\dashv
160>	103-3B	SCH DET	10	NC					NC	10	TC DATA	140-26B	~ 240			NC NC	-
161>	103-4B 103-6B	ENC BLK ENC CLAMP	11	NC HD	139-35B	162	H		NC NC	11	C SW PLS Y SW PLS	104-8A,141-41A 104-8B,141-41B	≺ 187 ≺ 194	ŀ		NC NC	
164>	103-7B	OUTPUT SYNC	13	NC		7	F		NC NC	13	C DO PLS Y DO PLS	104-9A,141-42A 104-9B,141-42B	≺ 188 ≺ 195	-		NC NC	-
165	103-8B 103-9B	VISC REGEN L ALT	14	NC VD	139-35A				NC	1.5	NC]	ļ		NC	
167 >	103-10B 103-10A	P ALT VO FIELD O/E	16	EXT SYNC DET EXT SC DET	139-24B 139-24A		-		NC NC	16	TBC SPEED	104-10B 104-11B,141-43A	≺ 196 ≺ 197	400>	200-2	NC T X (-)	\dashv
	100-708	NC	18	REF 1st FIELD	139-31A	<229	F		NC	1 8	NC L;FWD/REV X13		-√ 198	401>	200-4 205-4	RX(-) OUTPUT T/C(G)	
215>	139-32A,222-7	NC SERIAL CLK	19	NC SERIAL CS TBC	139-34B		F		NC NC	19	L;REV/H;FWD	104-12B,141-45B 104-12A,141-45A	₹198 ₹ 191	267		NC	
135>	103-4A,139-27B 139-32B,222-8	L;H SHIFT INH	21	H;IN PHASE L;SYSTEM RESET	139-27A 113-35B,139-39A,222-11	₹231	F		NC NC	2 1	NC H;SERVO LOCK	141-46A	₹241	292	109-42B 109-41A	AU STB 0 AU STB 2	-
216	139-32B,222-8 139-33A,222-9	SERIAL RX	2 3	SERIAL TX	139-33B,222-10	233			NC	2 3	PB FP 2	139-29A	~ 242	293	109-43B	AU SCK	
152>	103-28A	NC REF C(G)	2 4	NC REF C(X)	103-28B	-	-		NC NC	2 4	PB FP 1 L;VISC EXT	139-29B 139-28A	4 243	228>	105-17B	EXT SC DET	
	103-30A	NC U AXIS SC(G)	2 6	NC U AXIS SC(X)	103-30B	180	F		NC NC	2 6	H;CHROMA MUTE SERVO V	141-47A 141-44B	₹ 245 ₹ 246	231>	105-21B	NC H:IN PHASE	
153	103-30A 103-31A	V AXIS SC(G)	2 8	V AXIS SC(X)	103-31B	181			NC	2.8	NC	111-112	1	244>	106-25B	L:VISC EXT	
155>	103-33A	NC TBC'd R-Y(G)	3 0	NC TBC' d R-Y(X)	103-33B	≺ 182	-		NC NC	30	NC NC		1	242>	106-23B	PB FP 2 NC	
156>	103-34A	TBC' d B-Y(G)	31	TBC' d B-Y(X)	103-34B	≺ 183	F		NC NC	31	NC NC		1	229>	105-18B 105-20A,222-7	REF 1ST FIELD SERIAL CLOCK	-
157>	103-35A	TBC'd Y(G)	3 2	TBC' & Y(X)	103-35B	184			NC	3 3	NC		1	217	105-23A,222-9	SERIAL RX	
500 > 158 >	140-28B	L;SYNC DELAY H;VIDEO EE(DEMOD)	3 4	REF SYNC L;NOISELESS PB	141-43B 141-46B,104-13B	₹ 234 ₹ 235	-		NC NC	3 4	NC NC		4	226>	105-15B	NC VD	_
		NC	3 6	L;METAL/H;OXIDE	103-38B,141-37B,262-58				NC	3 6	Y PCM MUTE	104-10A	189	139>	103-8A	CHARA FRAME	
218	221-1	SYNC PHASE HUE	37	NC SC PHASE	221-2	- ≺236	F		NC NC	37	C PCM MUTE	104-11A	190	239 > 406 >	106-9B 223-7	PB SYNC KEY OUT	
220>	221-5 221-7	OUTPUT VIDEO LEVEL		SET UP OUTPUT CHROMA LEVEL	221-4	- √ 237 - √ 238	-		NC NC	3 9	NC NC		-	232>	105-228,222-11	L:SYSTEM RESET	
2217		NC	41	NC					NC	41	NC	1	1			NC	
-5 V - 2 ● -5 V - 2 ●	103-42 · 43		4 2	REG -5V	139-42 · 43 139-42 · 43	-5V-2 -5V-2	F		NC NC	42	DEMOD Y(X) DEMOD Y(G)	104-29B 104-30B	₹ 203 ₹ 204	- 5 V - 2 ● - 5 V - 2 ●	105-42 · 43 105-42 · 43	REG -5V	
8 V D	103-44 · 45 103-44 · 45	REG +8V	44	REG +8V REG +8V	139-44 · 45 139-44 · 45	08 V 08 V	F		NC NC	4 4	NC NC		}	8 V D	105-44 · 45 105-44 · 45	REG +8V	
5 V O	103-46 - 47	REG +5V	4 6	REG +5V	139-46 - 47	○5 V			NC	4 6	DEMOD C(X)	104-32B	₹205	5 V O	105-46 · 47	REG +5V	
5 VO-	103-46 · 47 103-48 · 49 · 50		47	REG +5V REG GND	139-46 · 47 139-48 · 49 · 50	-05V m	, , ,	104-48 • 49 • 50	NC REG GND	47	DEMOD C(G) REG GND	104-33B 141-48 · 49 · 50	₹206 -	5 V O	105-46 · 47 105-48 · 49 · 50	REG +5V REG GND	
٠,٠	103-48 · 49 · 50 103-48 · 49 · 50	REG GND	4 9 5 0	REG GND REG GND	139-48 · 49 · 50 139-48 · 49 · 50		E * 3	104-48 · 49 · 50 104-48 · 49 · 50	REG GND	4 9 5 0	REG GND REG GND	141-48 · 49 · 50 141-48 · 49 · 50		* " }	105-48 · 49 · 50 105-48 · 49 · 50	REG GND REG GND	
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	94B			8 4 8											A A 28	3 B B ,	
	134.			33 V ·											104-1 103-46 103-42 104-4 104-5 114-139-32A 105-22A,139-32A	139-1	
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MB-322A BOARD (2/5)

PVW-2600P (EK); #10001-11680

Serial No.(EK);10001 to 11680

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MB-322A(3/5) MB-322A(3/5)

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			CH260	2 REG GND 283-4- 3 REG GND 283-4- 4 REG -5V 293-3 5 REG -13V 294-3 7 UNREG GND 294-1 8 UNREG GND 294-1	9 UNREG -16V 10 UNREG +16V			CH282 CR262	22-7 7 L;SV RD 22-9 0 L;I/O RESET 22-9 0 L;I/O RESET 22-10 10 SV D0 22-11 11 SV D2 2-12 12 SV D3 2-12 12 SV D3	2-15 14 SY D6 2-15 15 SY D6 2-16 16 SY D7 2-17 TEE PROM SO 2-19 18 EE PROM SO 2-19 19 EE PROM SI	2-20 20 L;EE PROM SCK 2-21 21 L;EE PROM GS0 2-22 22 L;EE PROM GS1	2-24 24 TAPE BEON 2-25 25 TAPE BEON 2-26 26 TAPE BEON 2-27 27 1-REL CUNRENT 2-28 28 CAPSTAN CUNRENT 2-28 28 CAPSTAN CUNRENT	2-29 29 DRUM CURRENT 2-30 30 LOADING CURRENT 2-31 31 CC UP/DOWN CURRENT 2-32 32 POSITION CURRENT	2-34 34 CTL SIG	2-35 35 CAPSTAN FG A ANALOG 2-36 35 CAPSTAN FG B ANALOG 2-37 37 S-TENSION 2-39 39 LOADING DRIVE	2-40 40 S-REEL DRIVE 2-41 41 T-REEL DRIVE	2-42 42 CAPSTAN DRIVE 2-43 43 DRUM DRIVE 2-44 44 TENSION SENSOR VCC	2-45 45 LOADING FG 2-46 46 DRUM FG	2-48 48 S-REEL FG A	2-50 50 T-REEL FG A 2-51 51 T-REEL FG B 2-52 52 CAPSTAN FG A	2-53 53 CAPSTAN FG A NORM 2-54 54 CAPSTAN FG A NORM	2-55 55 CAPSTAN FG B NORM 2-56 56 CTL PLS -57 FWR FOR 12V -67 FW FG 14V	2-59 59	2 6 2 6 2 2 6 3 6 3 6 3 6 3 6 4 6 4 6 4	
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	16-50(a)		CH260	2 REG GND 283-4- 3 REG GND 283-4- 4 REG -5V 293-3 5 REG -13V 294-3 7 UNREG GND 294-1 8 UNREG GND 294-1	9 UNREG -16V 10 UNREG +16V			CH282 CR26 CR26	22-7 7 L;SV RD 22-9 0 L;I/O RESET 22-9 0 L;I/O RESET 22-10 10 SV D0 2-11 11 SV D2 2-12 12 SV D3 2-12 12 SV D3	2-15 14 SY D6 2-15 15 SY D6 2-16 16 SY D7 2-17 TEE PROM SO 2-19 18 EE PROM SO 2-19 19 EE PROM SI	2-20 20 L;EE PROM SCK 2-21 21 L;EE PROM GS0 2-22 22 L;EE PROM GS1	2-24 24 TAPE BEON 2-25 25 TAPE BEON 2-26 26 TAPE BEON 2-27 27 1-REL CUNRENT 2-28 28 CAPSTAN CUNRENT 2-28 28 CAPSTAN CUNRENT	2-29 29 DRUM CURRENT 2-30 30 LOADING CURRENT 2-31 31 CC UP/DOWN CURRENT 2-32 32 POSITION CURRENT	2-34 34 CTL SIG	2-35 35 CAPSTAN FG A ANALOG 2-36 35 CAPSTAN FG B ANALOG 2-37 37 S-TENSION 2-39 39 LOADING DRIVE	2-40 40 S-REEL DRIVE 2-41 41 T-REEL DRIVE	2-42 42 CAPSTAN DRIVE 2-43 43 DRUM DRIVE 2-44 44 TENSION SENSOR VCC	2-45 45 LOADING FG 2-46 46 DRUM FG	2-48 48 S-REEL FG A	2-50 50 T-REEL FG A 2-51 51 T-REEL FG B 2-52 52 CAPSTAN FG A	2-53 53 CAPSTAN FG A NORM 2-54 54 CAPSTAN FG A NORM	2-55 55 CAPSTAN FG B NORM 2-56 56 CTL PLS -57 FWR FOR 12V -67 FW FG 14V	2-59 59	2 6 2 6 2 2 6 3 6 3 6 3 6 3 6 4 6 4 6 4	

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5 V - 2	5 V - 2 O	109-1 · 2	REG GND REG +5V	3	REG +5V	111-3	-05V-2	5 V - 2 O	110-3	REG +5V	3	REG +5V	114-3	O5 V - 2
V - 2	8 V - 2 □	109-4	REG +8V	4	REG +8V	111-4	□8V-2	8 V - 2 🗆	110-4	REG +8V	4	REG +8V	114-4	□8V-2
5 V	- 5 V ●	109-5	REG -5V	5	REG -5V	111-5	-5 V	-5 V	110-5	REG -5V NC	5	REG -5V	114-5	-5 V
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	269	109-33A,111-28A 109-35B	H;NR ON H;CH2 PB MUTE	28	NC H;CH2 HEAD REC			269>	109-33A,110-28A 109-35A	H;NR ON H;CH1 PB MUTE	2 9			- √284
	271>	109-35B	H;AUDIO ATT ON	3 0	L;METAL/H;OXIDE(AU)		<287	271>	109-37A,110-30A	H;AUDIO ATT ON	3 0	L;METAL/H;OXIDE(AU)		₹287
			NC	3 1	H;SLOW EQ ON	109-37B,111-31B	₹288			NC NC	3 1	H;SLOW EQ ON	109-37B,110-31B	₹288
	296>	212-2	NC CH2 PB/EE(G)	3 2	CH2 PB/EE(G) CH2 PB/EE(X)	212-2	₹ 296 ₹ 307	309>	213-2	NC CH1 PB/EE(G)	3 2	CH1 PB/EE(G) CH1 PB/EE(X)	213-2	≺309 -≺319
	480	212-2	NC	34	CH2 PB/EE(A)	212-2	296		210-2	NC	3 4	CH1 PB/EE(G)	213-2	₹309
			NC	3 5	L;CH2 PB	109-39A	~ 272			NC	3 5	L;CH1 PB	109-38B	₹289
	297>	212-4	CH2 PB(G)	3 6	CH2 PB(G)	212-4	1 297	310	213-4	CH1 PB(G) CH1 PB(X)	3 6	CH1 PB(G) CH1 PB (X)	213-4	
	298>	212-3	CH2 PB(X)	37	CH2 PB (X)	212-3	→ 298	311>	213-3	NC NC	3 8	NC NC		
			NC NC	3 9	NC					NC	3 9	NC		
	301>	214-4	CH2 HP METER(G)	4 0	CH2 HP METER(G)	214-4	<301	313>	214-2	CH1 HP METER(G)	40	CH1 HP METER(G)	214-2	≺313
	302>	214-3	CH2 HP METER(X)	41	CH2 HP METER(X) OUTPUT CH2 LINE(G)	214-3	-≺302 -≺303	314	214-1	CH1 HP METER(X) OUTPUT CH1 LINE(G)	41	CH1 HP METER(X) OUTPUT CH1 LINE(G)	214-1	
	303>	207-2	OUTPUT CH2 LINE(G)		OUTPUT CH2 LINE(X)	207-1	304	316		OUTPUT CH1 LINE(X)		OUTPUT CH1 LINE(X)	207-3	₹316
, 3 V	-13V ■	109-44 · 45	REG -13V	44	REG -13V	111-44 - 45	-13V	-13V■	110-44-45	REG -13V	44	REG -13V	114-44 - 45	■-13V
3 V	- 13 V ■	109-44 · 45	REG -13V	4 5	REG -13V	111-44 - 45		- 13 V ■	110-44 - 45	REG -13V	4.5	REG -13V	114-44 • 45	-13V □13V-2
V – 2	13V-2	109-46 · 47	REG +13V REG +13	4 6	REG +13V REG +13	111-46 · 47 111-46 · 47	□13V-2 □13V-2	13V-2 -	110-46 · 47	REG +13V	4 6	REG +13V	114-46 - 47	
V - 2	3-2	109-48 - 49 - 50	REG GND	48	REG GND	111-48 - 49 - 50		1	110-48 • 49 • 50	REG GND	48	REG GND	114-48 - 49 - 50	—
	3-	109-48 - 49 - 50	REG GND	4 9	REG GND	111-48 - 49 - 50		!	110-48 • 49 • 50	REG GND	4 9	REG GND	114-48 - 49 - 50	-6
	¥-L	109-48 - 49 - 50	REG GND	5 0	REG GND	111-48 - 49 - 50		•— <u>—</u>	110-48 - 49 - 50	REG GND	5 0	REG GND	114-48 - 49 - 50	
-, so so s	57 PWM FOR 12V 141-35A 58 L:METAL/H:OXIDE 141-35B,105-36B,103-38B 59 0 1/2 VD FOR DR 141-38B 61 DA LACH 141-38A 62 NC	-	58282	REG.2-2 2 REG.45V 114-4	S REG -SV	SW REG.3-7 1 L:REG TEMP 141-40B	5 REG +5V 6 REG +5V 7 REG -5V		REG.4-4 1 UNREG GND 240-6.211-11 REG.4-6 2 UNREG -18V 260-9 REG.4-5 3 UNREG +18V 200-7.260-10 REG.4-3 4 REG -13V 141-5.114-44-45 REG.4-1 5 REG +13V 141-5.114-44-45 ——-13V-2	REG.4-2 6 REG GND 106-41-49-50		 М В -		
DR-118A,	DR-118A,302-57 DR-118A,302-58 DR-118A,302-60 DR-118A,302-60 DR-118A,302-61 DR-118A,302-61 DR-118A,302-61 DR-118A,302-63	DR-118A		SW REC	SW RE	SW RE	S S S S S S S S S S S S S S S S S S S		SW RE	S ¥ 3E		BOARD	NO.1-640-038-2 OOP (EK);#10001-	1,22

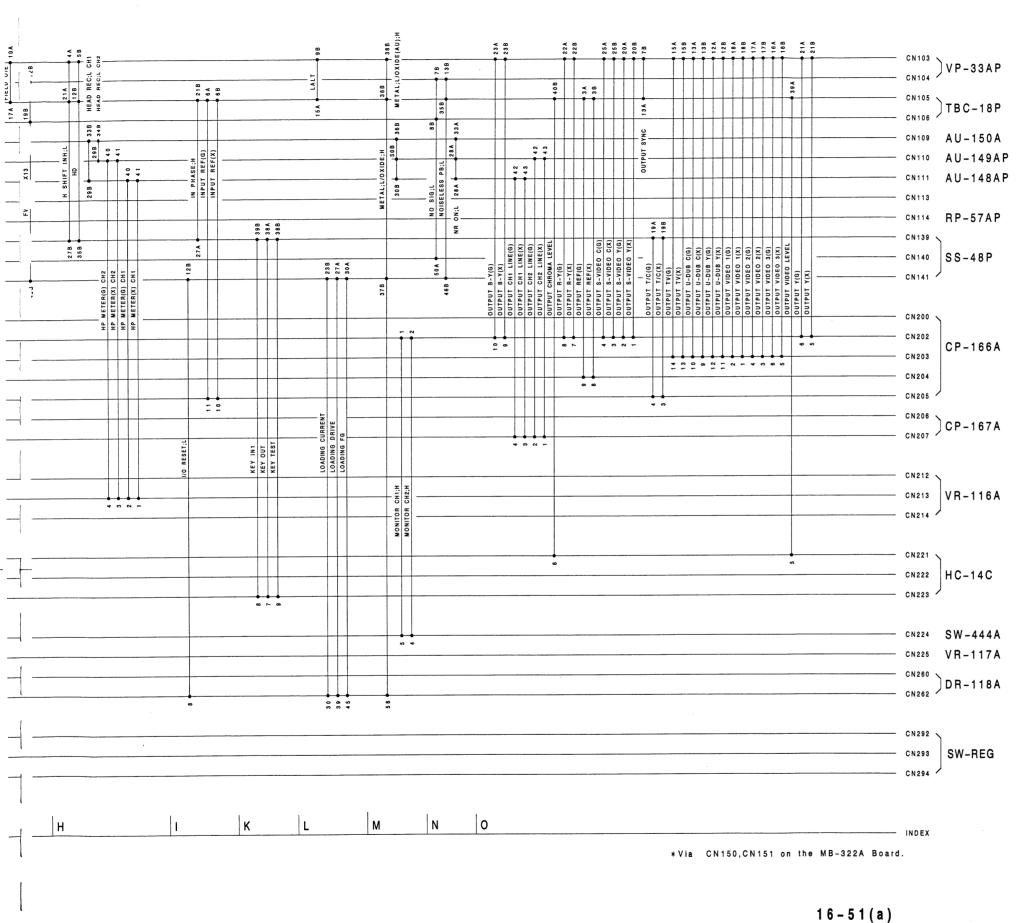
16-50(a)

Serial No.(EK);10001 to 11680

MB-322A(4/5); MOTHER BOARD

VP-33AP 0 T T O T T O T T O T T O T T O T T O T T O T T O T T O T T O T T O T T O 30B 32B 29B 13B 37B 11B 38B 9 A 8 2 6 B TBC-18P 478 468 438 428 AU-150A CN109 C(S) (X) AU-149AP CN110 -AU-148AP CN111 23 A 1 6 B RP-57AP CN114 -198 23B 22B 27B 35B 36A 36B SC DET SS-48P 47A 12A 49B 36B 25B 348 358 348 268 158 228 298 10A 22A 22A 31B 31A 14A 13B CAPSTAN 2FG A 11 CAPSTAN 2FG B 11 CAPSTAN 2FG B 11 CB P B RF(G) CB PB RF(X) CF ID REGEN CHARA SIG CHROMA MUTE;H CN141 458 CN200 -유유유 CP-166A CN206 CP-167A (CTL PLS CTL SIG CN212 VR-116A CN213 CN214 CN221 HC-14C CN222 SW-444A CN224 VR-117A CN260 DR-118A 2 8 5 29 43 46 CN292 SW-REG CN293 CN294 D 1 A C INDEX -

16-51(a) A B C D E F G H

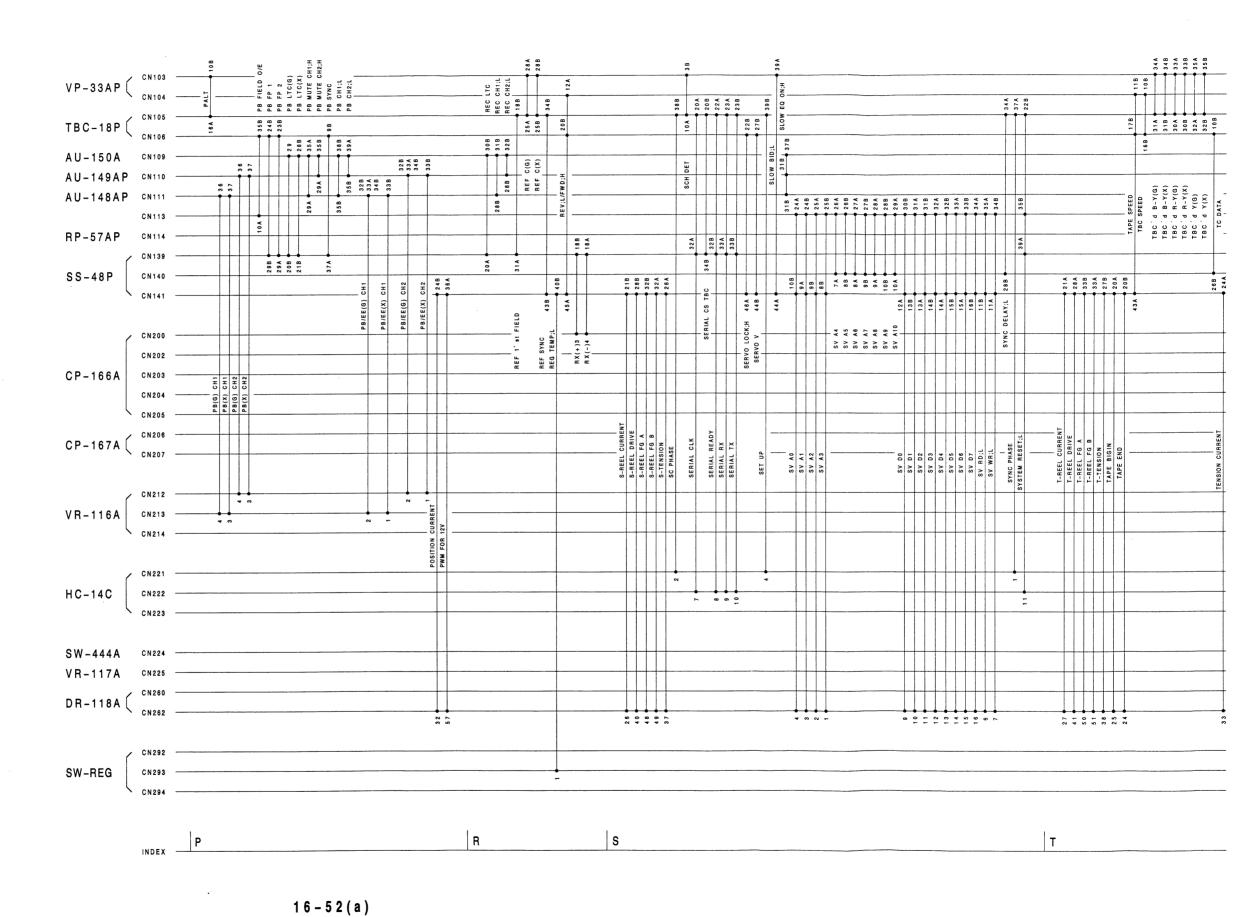


MB-322A BOARD (4/5)

BOARD NO.1-640-038-21,22 PVW-2600P(EK);#10001-11680

Serial No.(EK); 10001 to 11680

MB-322A(5/5); MOTHER BOARD

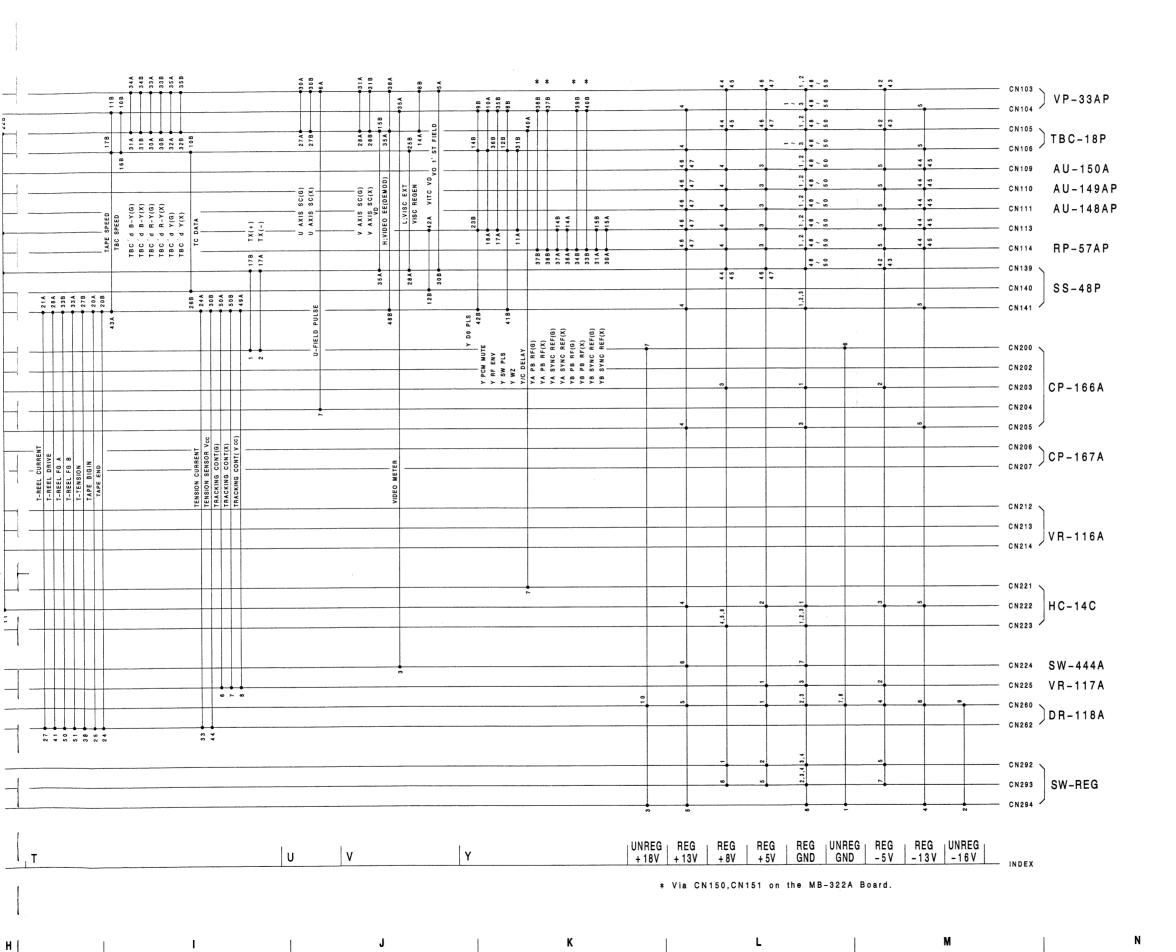


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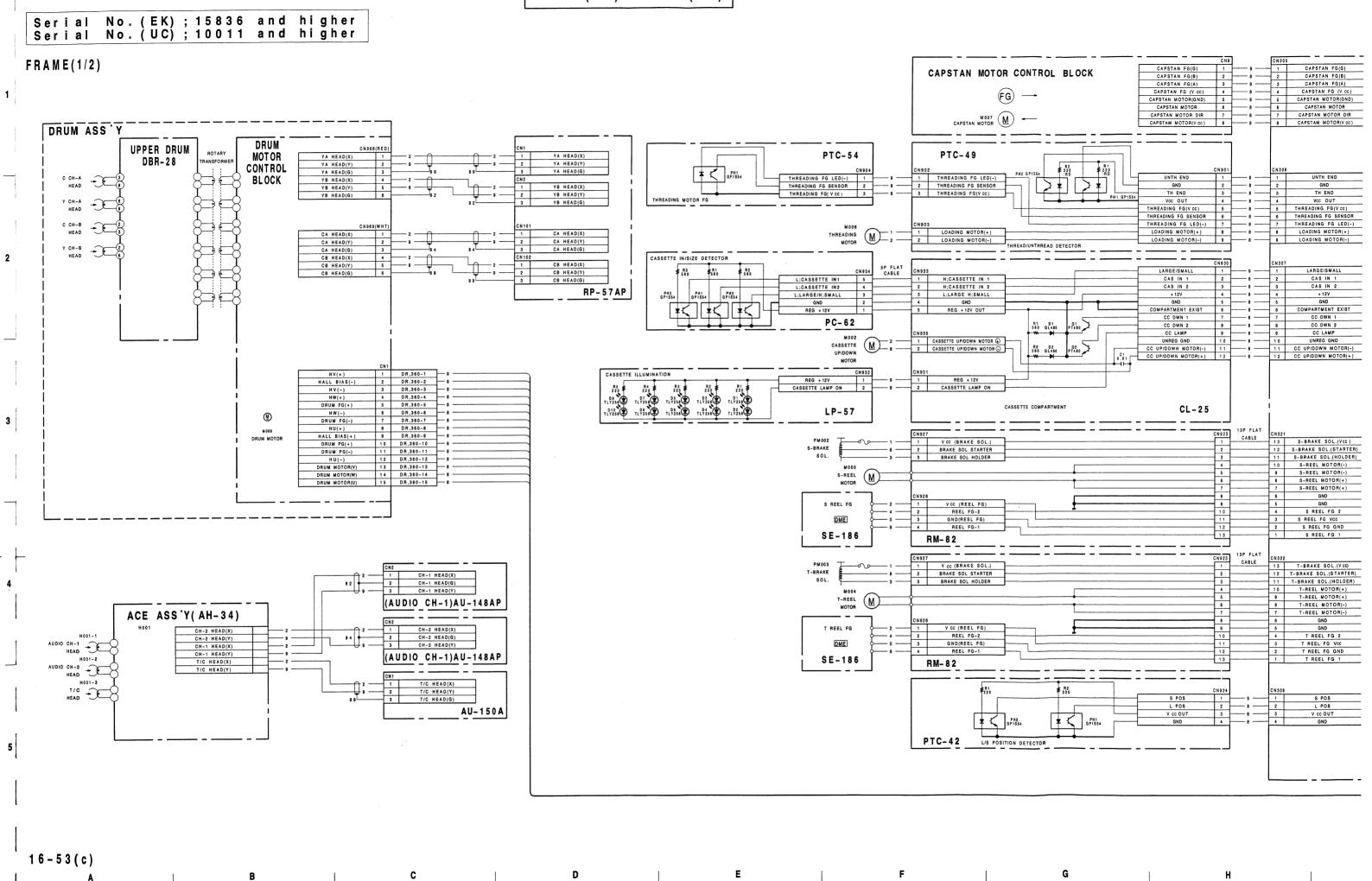


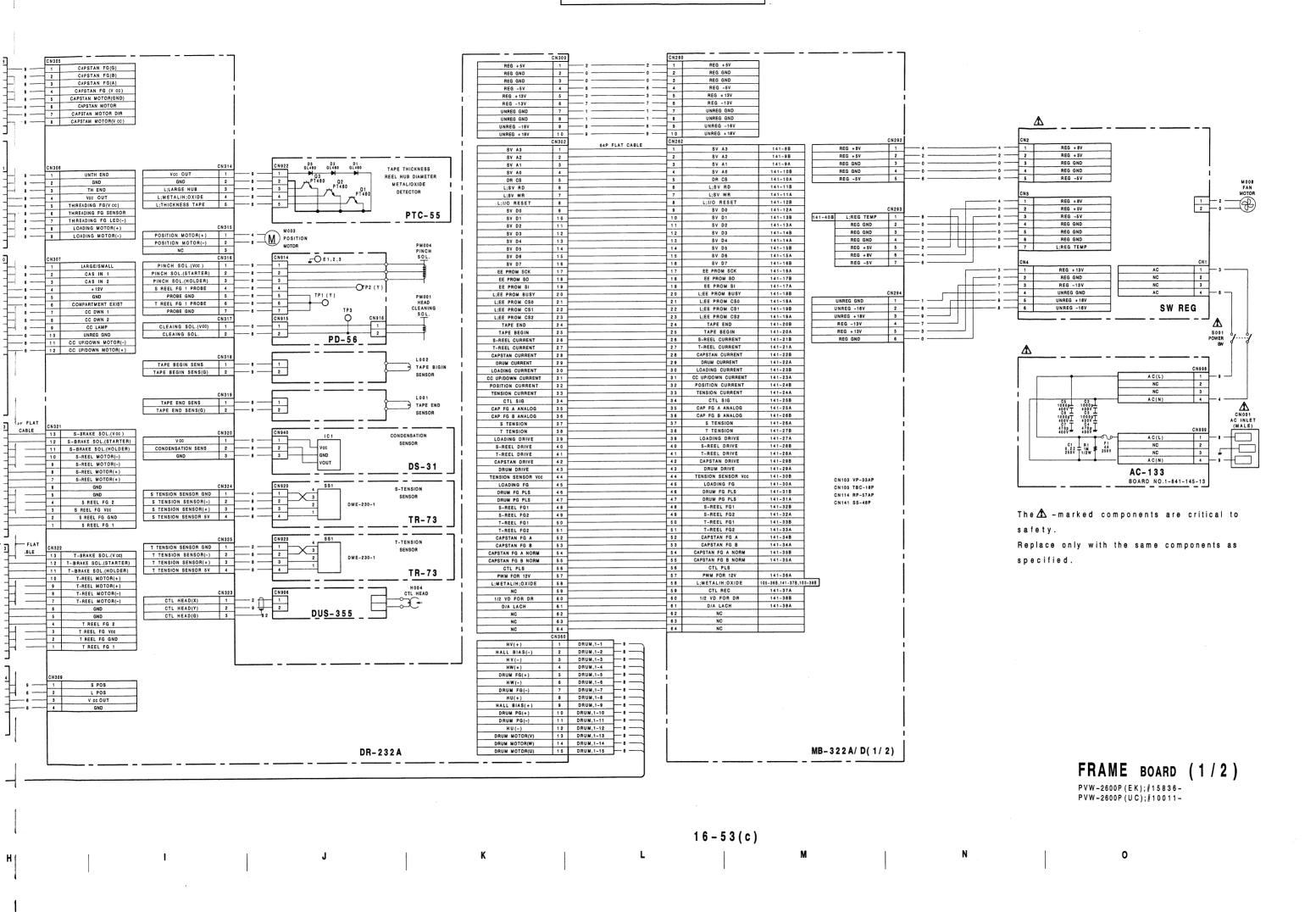
MB-322A BOARD (5/5)

BOARD NO.1-640-038-21,22 PVW-2600P(EK);#10001-11680

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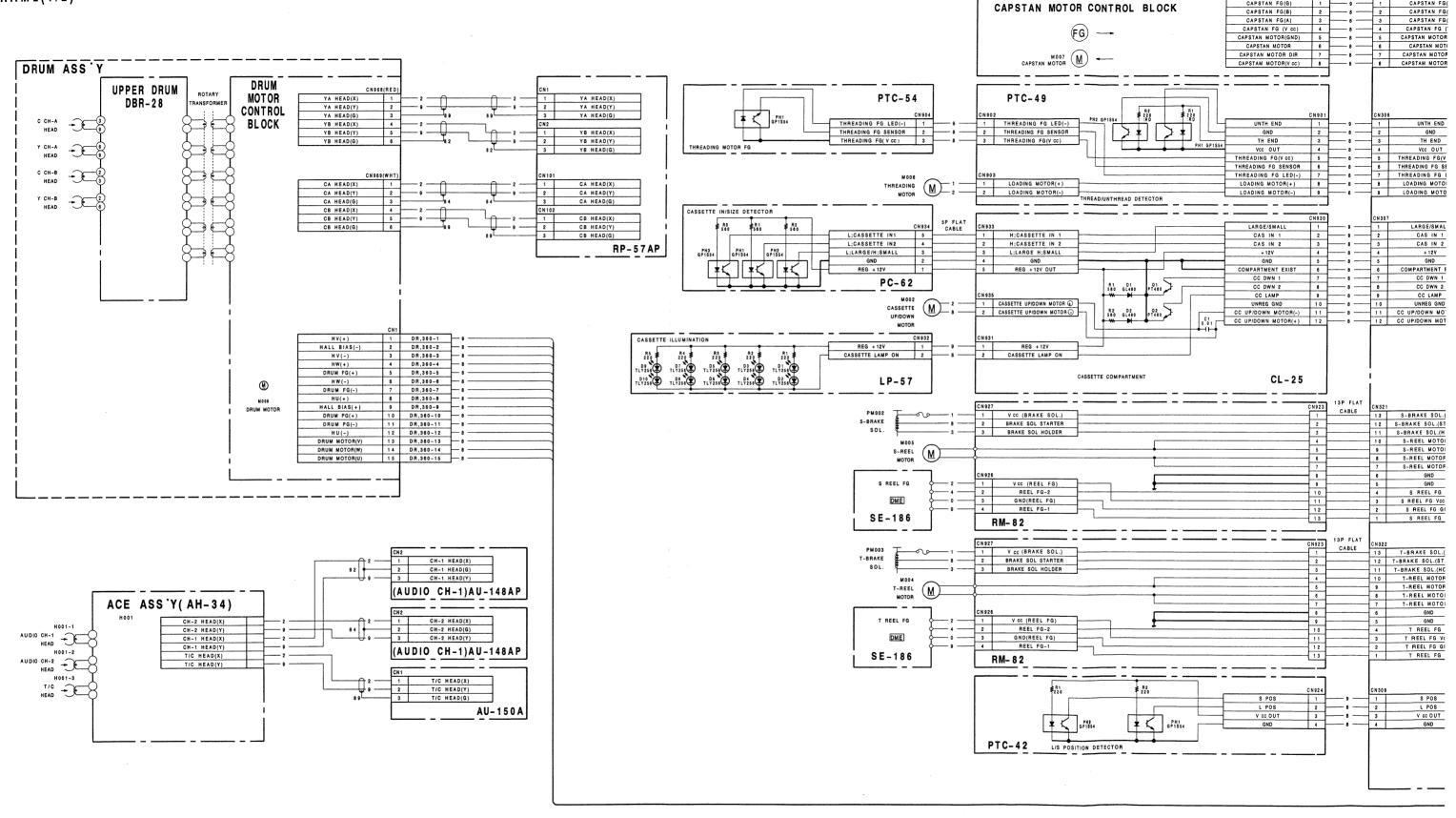
16-52(a)





Serial No. (EK); 14586 and higher Serial No. (UC); 10011 and higher





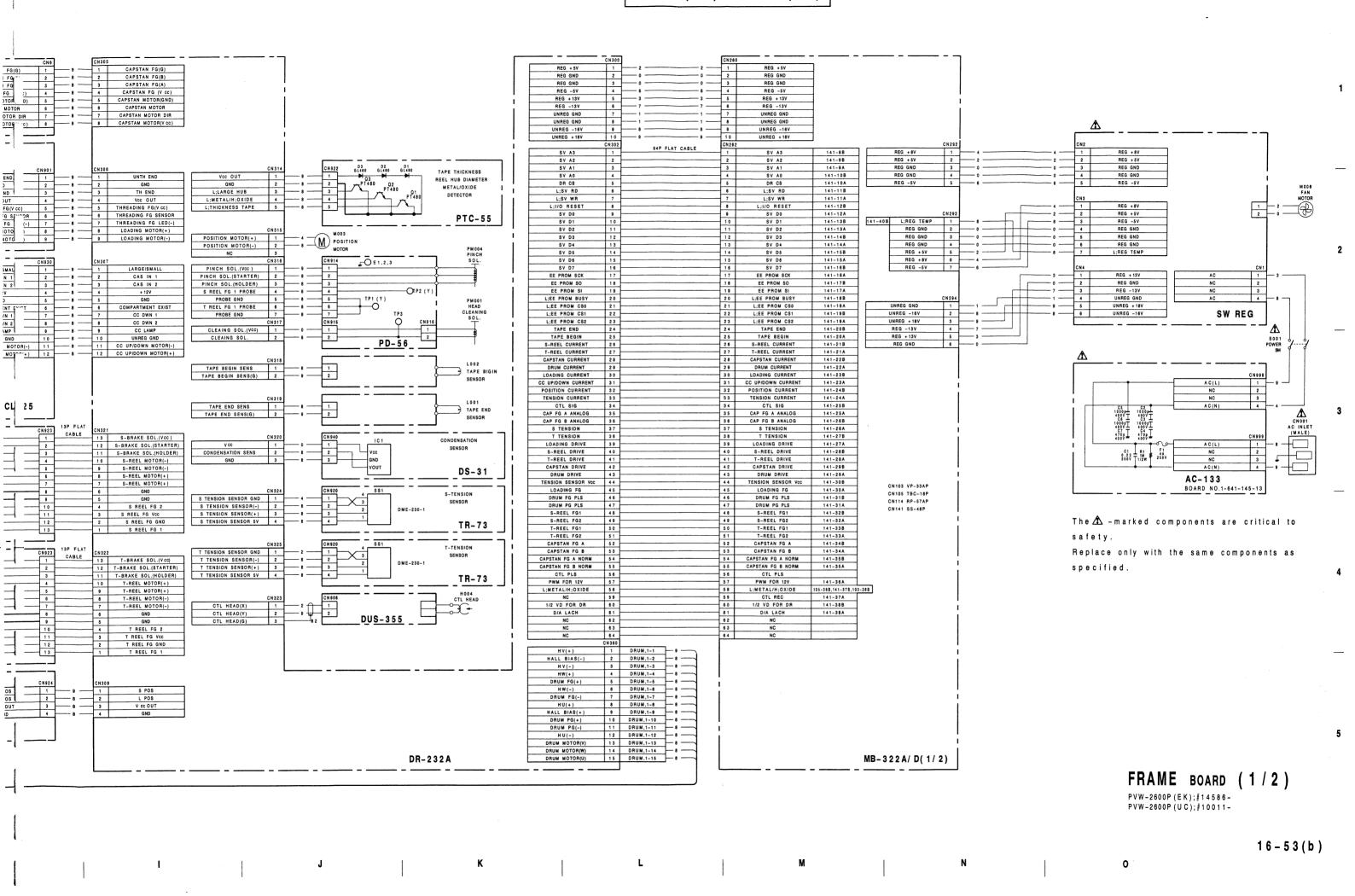
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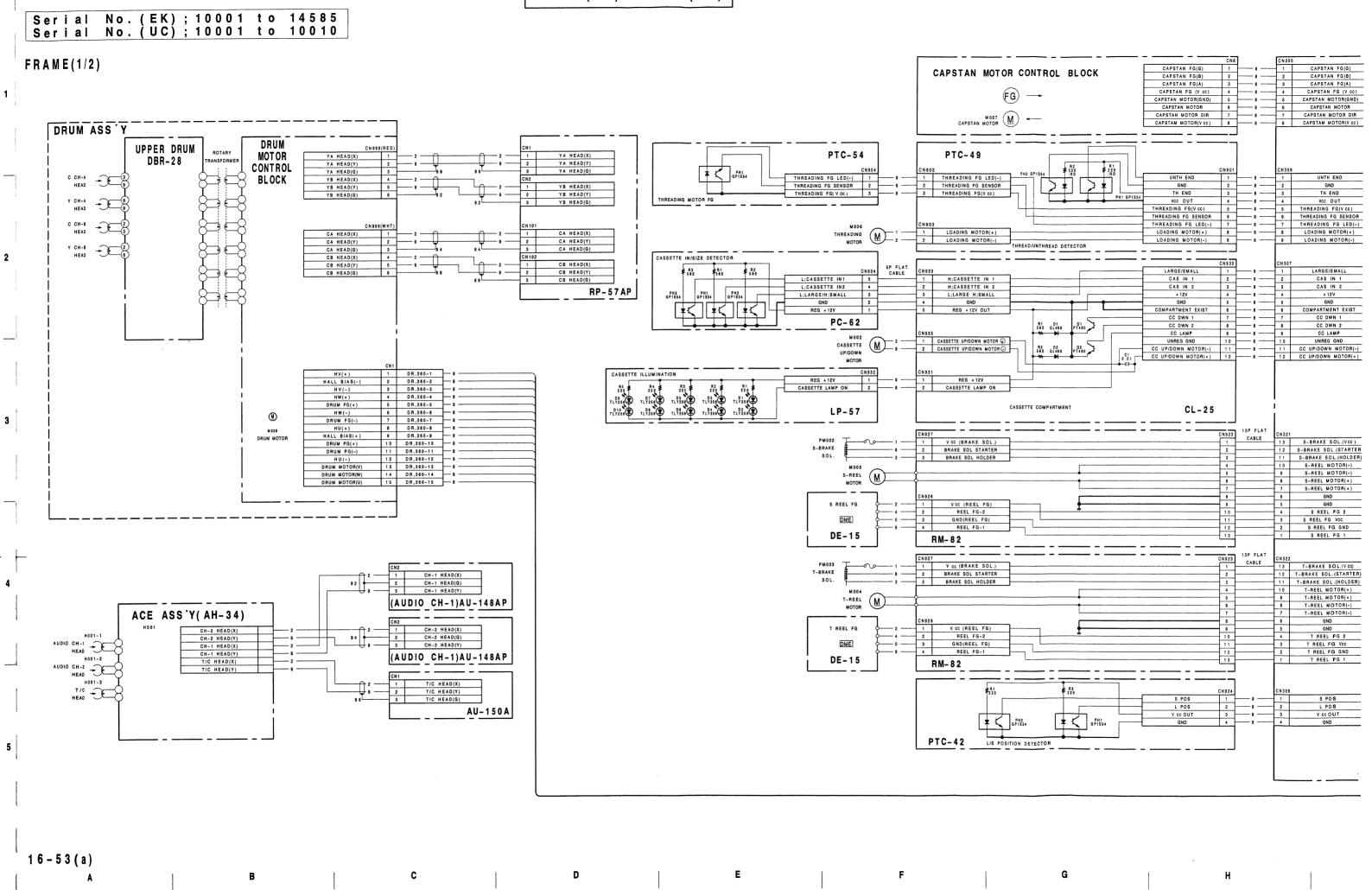
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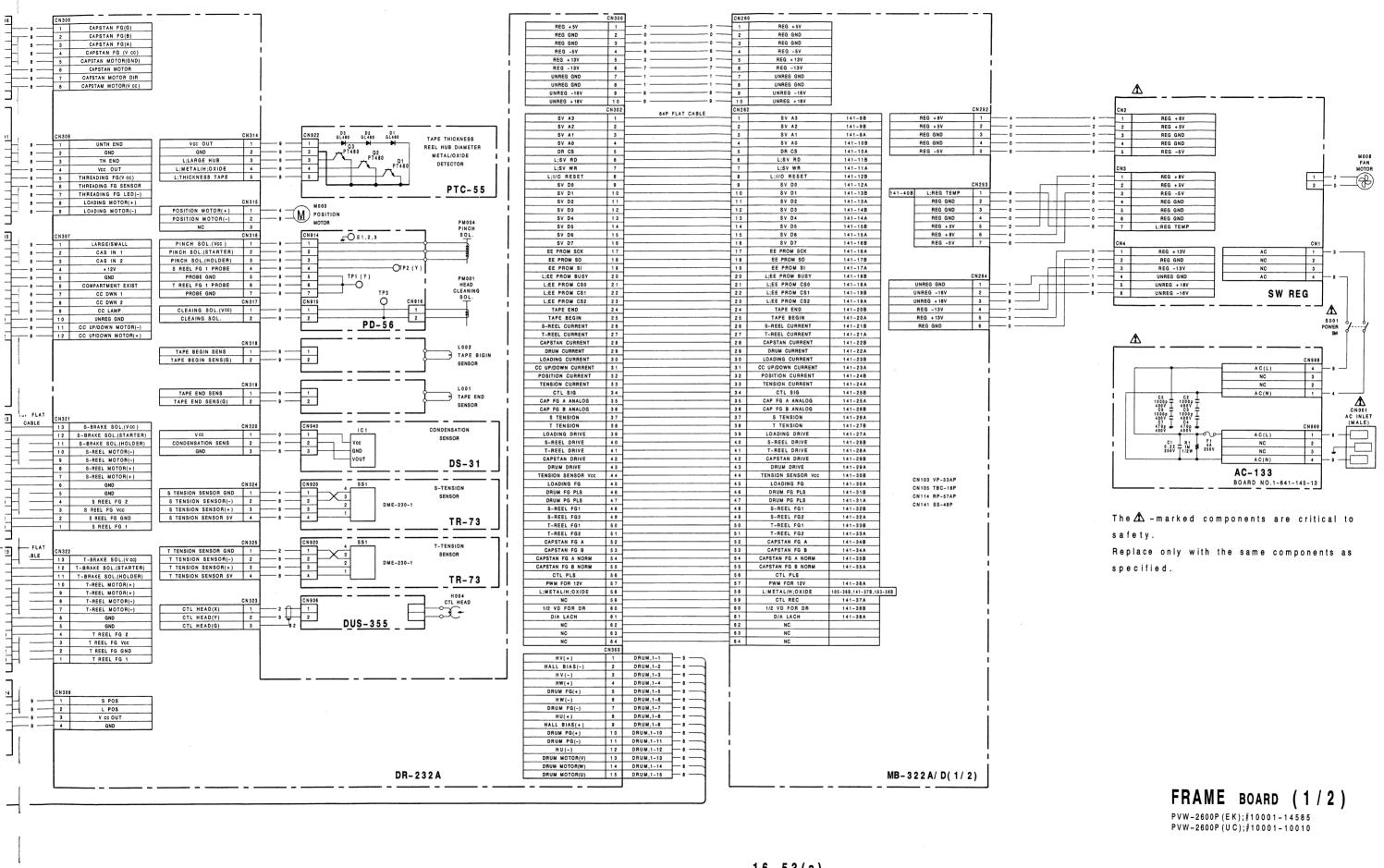
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CAPSTAN FG(G)

CAPSTAN FG







16-53(a)

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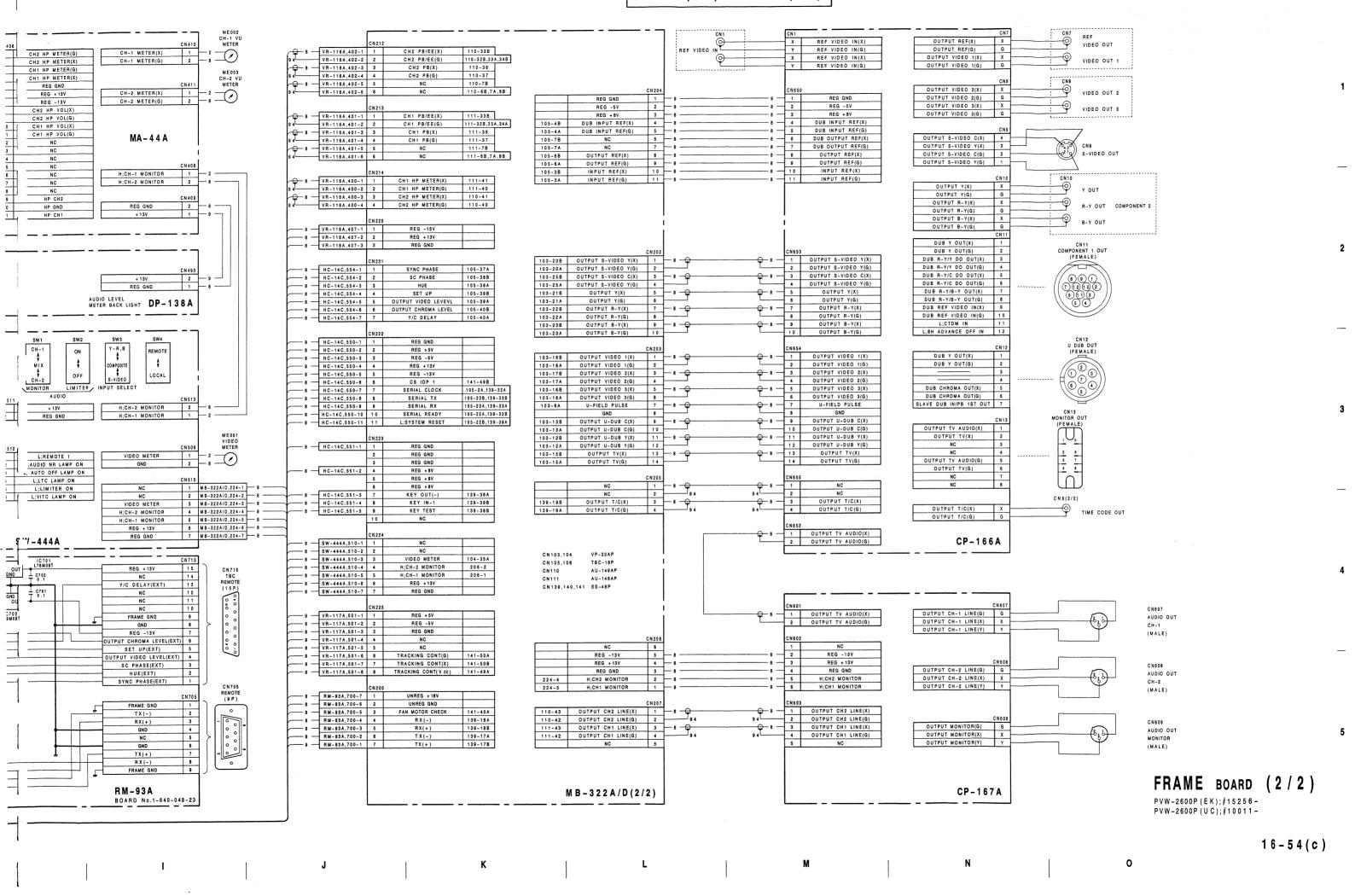
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Serial No. (EK); 15256 and higher Serial No. (UC); 10011 and higher FRAME(2/2)MB-322A/D,214-1 CH2 HP METER(G) M B - 322A/D,214-2 2 M B - 322A/D,214-3 3 CH-1 METER(G) REG +5V 2 MB-322A/D,222-2 CH1 HP METER(G) CH2 HP METER(X) CH2 HP METER(X) REG -5V 3 MB-322A/D,222-CH2 HP METER(X) CH1 HP METER(G REG + 13V 4 MB-322A/D.222-MB-322A/D,214-4 CH2 HP METER(G) CH1 HP METER(X) CH1 HP METER(X) 5 MB-322A/D,222-5 CH-2 METER(X) CS IOP 1 6 MB-322A/D.222-6 REG + 13V REG +13V SERIAL CLOCK REG -13V 7 MB-322A/D,222-7 DIAL A DIAL A 8 MB-322A/D,222-8 9 MB-322A/D,222-9 CH1 PB/EE(G) CH1 PB(X) SERIAL TX MB-322A/D.213-2 CH2 HP VOL(X) CH2 HP VOL(X) SERIAL RX MB-322A/D,213-3 CH2 HP VOL(G) CH2 HP VOL(G) STILL 5
H;JOG/L;SHUTTLE 6 STILL 10 MB-322A/D,222-10 11 MB-322A/D,222-11 SERIAL READY MB-322A/D 213-4 CH1 PB(G) CH1 HP VOL(X) CHI HP VOL(X) H;JOG/L;SHUTTLE Q 8 − MB-322A/D,213-5 L;SYSTEM RESET CH1 HP VOL(G) CH1 HP VOL(G) MA-44/ MB-322A/D,213-6 1 MB-322A/D,223-1 2 MB-322A/D,223-4 REG GND PTC-39 CH2 PB/EE(X) MB-322A/D,212-REG +8V CN590 FLAT CABLE 10P 94 MB-322A/D,212-2 94 MB-322A/D,212-3 94 MB-322A/D,212-4 MB-322A/D,212-4 MB-322A/D,212-4 H;CH-1 MONITOR H;CH-2 MONITOR KEY OUT(-3 MB-322A/D,223-7 CH2 PB/EE(G) UNREG GND UNREG GND KEY IN-1 4 MB-322A/D,223-8 CH2 PB(X) UNREG GND UNREG GND KEY TEST 5 MB-322A/D,223-9 CH2 PB(G) UNREG GND HP CH2 HP CH2 UNREG +9V MB-322A/D,212-REG GND UNREG +9V UNREG +9V + 13V UNREG +9V
KEY SERIAL COMMAND UNREG +9V KEY SERIAL COMMAND MB-322A/D,220-1 REG -13V 8 INT KEY SERIAL STATUS
9 L;KEY BOARD TEST
10 NC INT KEY SERIAL STATUS 8 MB-322A/D,220-2 2 MB-322A/D,220-3 3 REG + 13V L:KEY BOARD TEST 9 REG GND HEADPHONE ACK VR-116A SEGMENT G AUDIO LEVEL METER BACK LIGHT DP -SEGMENT F SEGMENT E 1 MB-322A/D,221-1 2 MB-322A/D,221-2 SYNC PHASE SEGMENT D SC PHASE SEGMENT C SEGMENT B 3 MB-322A/D,221-3 4 MB-322A/D,221-4 SET UP SEGMENT A 88 88 88 OUTPUT VIDEO LEVEL 5 MB-322A/D,221-5 6 MB-322A/D,221-6 Y-R,B CH-1 PB CH-2 PB HEAD PHONES DIGIT 10H ON OUTPUT CHROMA DIGIT 1H 7 MB-322A/D,221-7 DIGIT 10M MINUTES SECONDS DIGIT 1M OFF LOCAL DIGIT 10S R2 220 ≢ MONITOR LIMITER DIGIT 10F AUDIO TLV256 DIGIT 1F TLV256 TLV256 REG GND REG GND H;CH-1 MONITOR DP-159A RESET SW RETUIDED METER BACK LIGHT RESET SCAN L;REMOTE 1 VIDEO METER L;REMOTE 1 2 L;AUDIO NR LAMP ON 3 L; AUTO OFF LAMP ON L:AUDIO NR LAMP ON GND L; AUTO OFF LAMP ON 3 L;LTC LAMP ON L;LTC LAMP ON DP-139 KY-210A TIME CODE DISPLAY NC L;LIMITER ON L; VITC LAMP ON NC VIDEO METER H;CH-2 MONITOR H;CH-1 MONITOR REG +13V REG GND SW-444A IN OUT 178M09T C702 REG +13V 0.047 T REG GND Y/C DELAY(EXT) C703 | GND | N OUT REG + 13V CN553 REG -13V NC NC 1C702 L79M09T FRAME GND REG + 13V 2 GND OUTPUT CROMA LEVEL(EXT) 4 4 OUTPUT CHROMA LEVEL(EXT REG -13V Y/C DELAY(EXT) 5 Y/C DELAY(EXT) OUTPUT CHROMA LEVE SET UP(EXT) SET UP(EXT) SET UP(EXT) OUTPUT VIDEO LEVEL(EXT) 7 7 OUTPUT VIDEO LEVEL(EXT OUTPUT VIDEO LEVEL SC PHASE(EXT) 8 SC PHASE(EXT) SC PHASE(EXT) HUE(EXT) HUE(EXT) HUE(EXT) SYNC PHASE(EXT) SYNC PHASE(EXT) SYNC PHASE(EXT) 1 MB-322A/D,225-1 REG +5V 2 MB-322A/D,225-2 8 --- REG -5V M001 M 2 1 1 2 1 N 720 REG GND FAN MOTOR(+) FRAME GND 4 MB-322A/D,225-4 5 MB-322A/D,225-5 T X (-) R X(+) TRACKING CONT(G) 6 MB-322A/D,225-6
TRACKING CONT(X) 7 MB-322A/D,225-7
TRACKING CONT (V CC) 8 MB-322A/D,225-8 TRACKING CONT(G) GND MB-322A/D.200-7 1 UNREG + 18V NC MB-322A/D,200-6 2 GND UNREG GND T X (+) MB-322A/D.200-5 3 FAN MOTOR CHECK FIXED RV1 R X (-) MB-322A/D,200-4 4 R X (-) C6 0.022 - 8 - MB-322A/D,200-3 5 RX(+) FRAME GND VR-117A HC-14C - 8 - MB-322A/D,200-2 6 TX(-) - 9 - MB-322A/D,200-1 TX(+) RM-93A BOARD No.1-64 16-54(c) D Ε

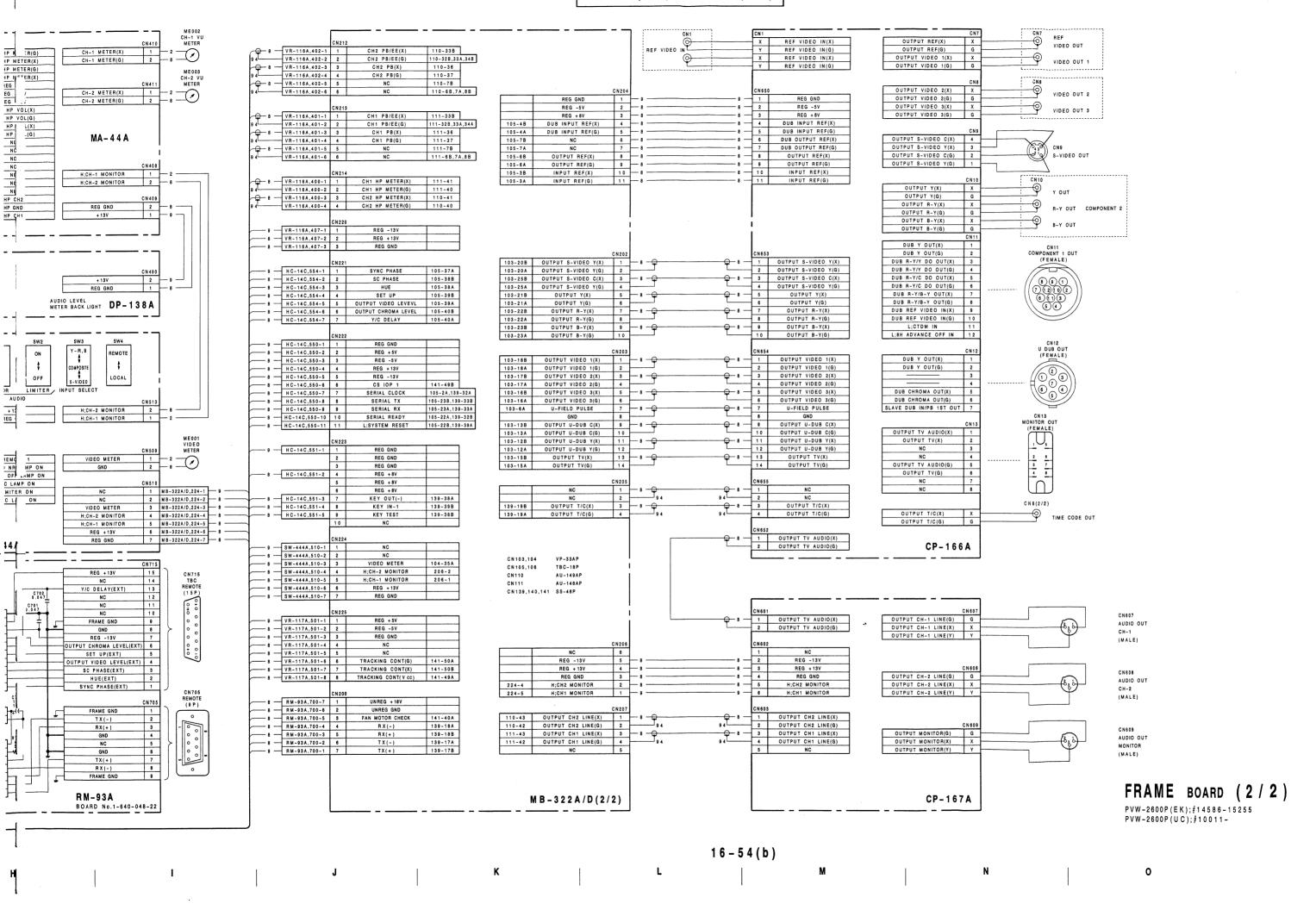
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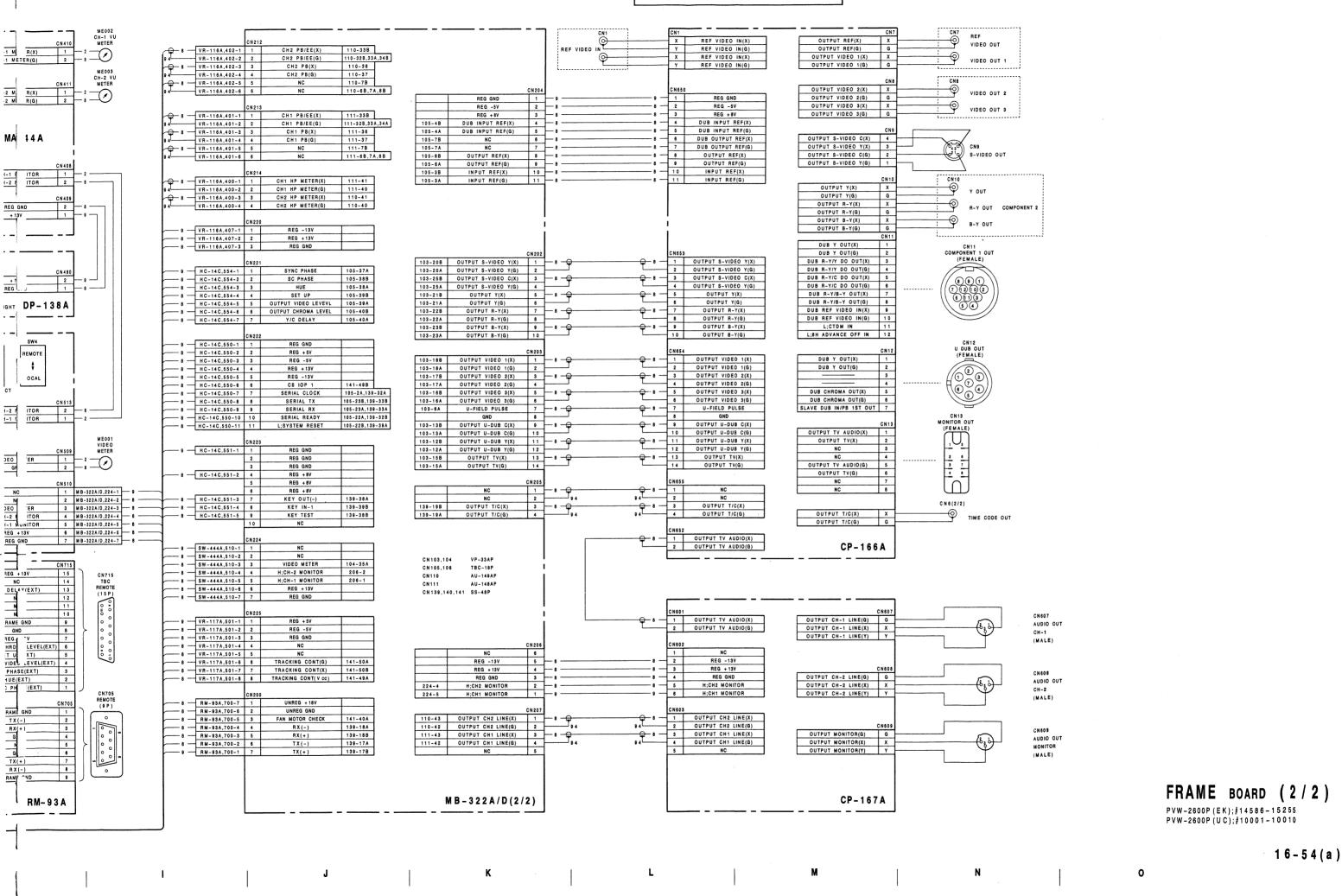
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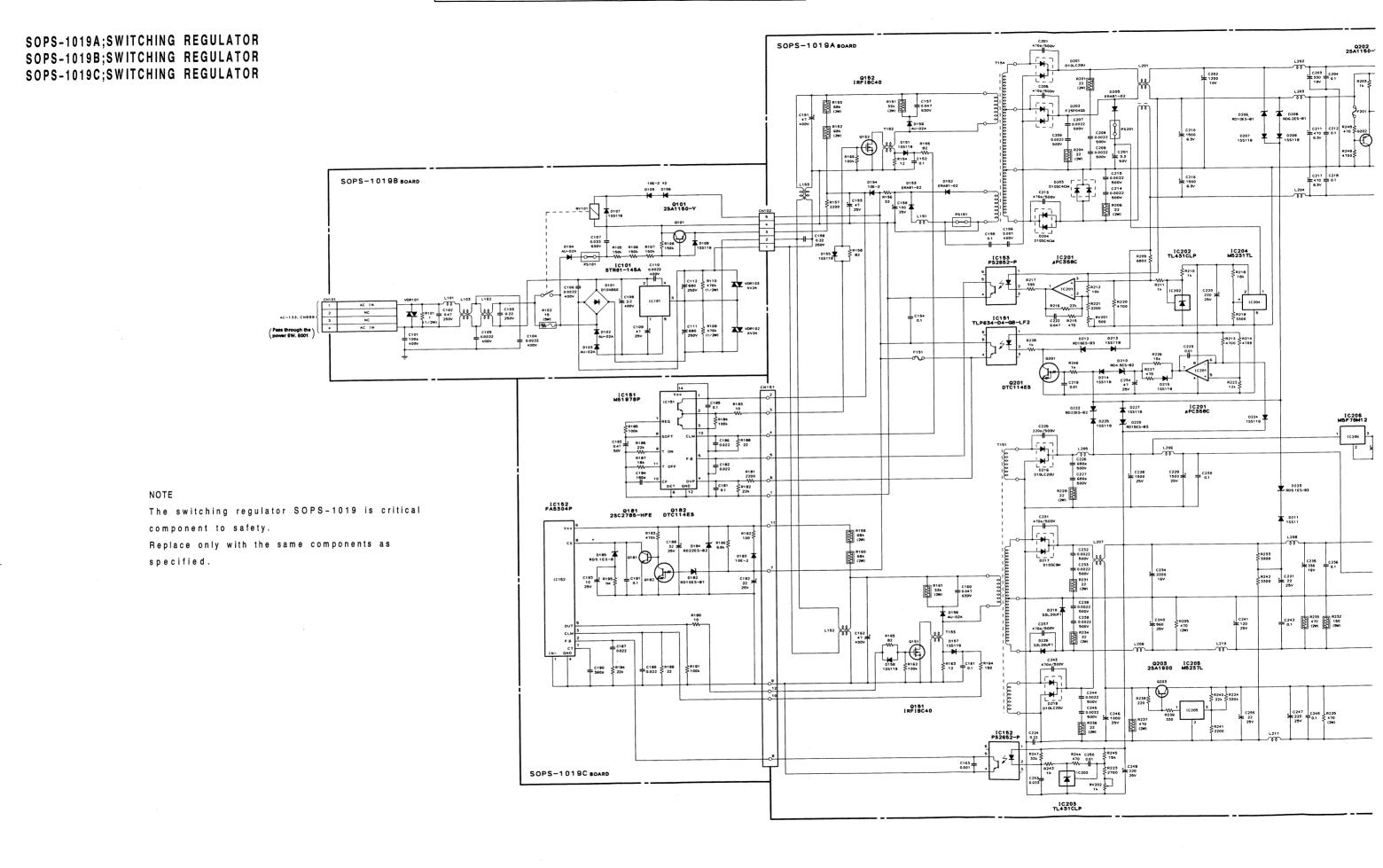
16-54(b) G Ε D



16-54(a) A B C D E F G H

FRAME(2/2) FRAME(2/2)





16-55

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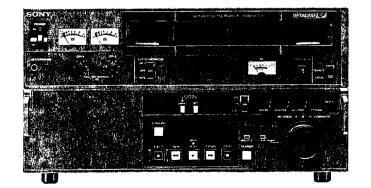
SONY

VIDEOCASSETTE PLAYER

PVW-2600P

SERVICE MANUAL

Vol.2 1st Edition (Revised 1)
Serial No.10001 and Higher
(EK)
Serial No.10001 and Higher
(USA CANADA)





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SECTION 17 SEMICONDUCTOR PIN ASSIGNMENTS

PAGE

この章の図の中には互換性のないダイオード、トランジスタ、ICが併記されていることがあります。部品を交換するときには必ず部品表を参照してください。

Transistor

等価回路はICメーカーのData Bookに従いました。

PAGE

Diode

10E-2 17-3	2SA111517-4
1S2836 17-3	2SA1141 17-4
1SS1 19 17-3	2SA1213 17-4
1SS303 17-3	2SA161017-4
1SS304 17-3	2SA161117-4
1SV160 17-3	2SA47317-4
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DIVIZ I IA 17 0	2SB111517-4
FC52M17-3	2SB1115A17-4
FC53M17-3	2SB1121 17-4
	2SB624 17-4
FC54M 17-3	2SB731
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GL-5HD817-3	2SB733 17-4
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47.0	2SB96217-4
LB402VK17-3	0001000 47
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	2SC162717-4
RD??ESB?17-3	2SC212017-4
RD??M17-3	2SC245817-4
	2SC278517-4
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SB01-05CP17-3	2SC301217-4
	2SC373517-4
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TLY256 17-3	2SC417717-4
TLUG154 17-3	2SC417817-4
	2SC4213A 17-4
	2SC4213B17-4
	2SD1615A17-4
	2SD162317-4
	2SD59617-4
	2SD77317-4
	2SD77417-4
	2SD78817-4
	2SD80917-4
	2SJ10617-4
•	2SJ12217-4
	2SJ13217-4
	2SJ14317-4

DTA144ES17-5 DTA144EU17-5 The chart in this section may sometimes show diodes, transistors, and ICs that are not interchangeable. When replaceing a component, be sure to refer to the parts list.

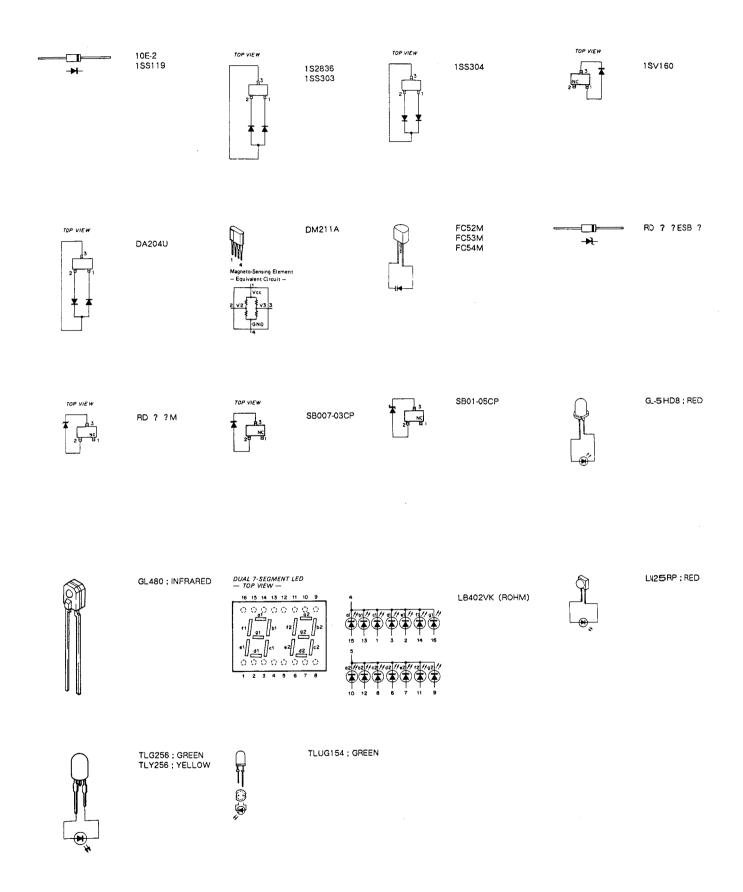
The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

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DTC144EF		AM26LS32PC	
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DTC144EU	1/-5	BX-3914	1/-6
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		CXA1370Q	17-8
IMX1	17-5	CXA1450M	17-9
		CXA1451M	17-9
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1 1-001		CXA1480Q	
		CXA1521M	17-9
		CXD1095Q	17-10
		CXD1132Q	17-11
		CXD1151Q	
		CXD1171M	
		CXD1171M	
		CXD1175AW	
		CXD2202Q	
		CXD2207Q	
		CXD2209Q	
		CXD8117P	
		CXD8152Q	
		CXD8160Q	
		CXD8161AQ	17 -17
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		CXD8176AQ	17-21
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		CXD8310M	
		CXD8311Q	17-22
		CXD8313Q	
		CXK1013P	47.00
		CXK1023P	
		CXK1203Q	
		CXK1206AM	
		CXK1206M	
		CXK5816M-12I	L 17-25
		CXK58257M-10	
		HD6435328RA	00F 17-26
		L78M09T	17-97
		L79M09T	
		LA7205	
		LM2903DQ	
		LM2903M	1/-2/

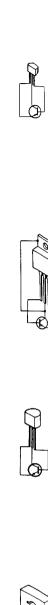
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SEMICONDUCTOR INDEX

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MC14052BF			1ANS 17-36		
MC14053BCP			1NS 17-36		
MC14053BF			38ANS 17-36		
MC14066BF			4ANS 17-36		
MC14069UBC			53ANS 17-36		
MC14069UBF	17-32		57ANS 17-37		
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MC14161BCP		SN74HC11	91NS 17-37		
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RANSISTOR



2SA1115



2SA1141 2SB731



2SA1213 2SB1115 2SB1115A 2SB1121 2SB798



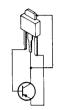
2SA1610 2SA1611 2SA812 2SB624



2SA473 2SA768



2SB733



288962



2SC1623 2SC3735 2SC4176 2SC4177 2SC4178 2SC4213A 2SC4213B 2SD596



2SC1627 2SC2120



2SC2458



2SC2785



2SC2873Y 2SD1615A 2SD1623



2SC3012



2SD773 2SD774



2SD788



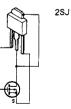
2SD809



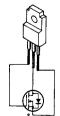


2SJ122



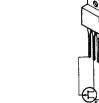


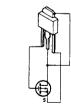
2SJ132





2SJ106





2SJ143





2SK209 2SK613 2SK852 2SK94



2SK614

TOP VIEW



DTA114TU (R1 = 10K, R2 = ∞) DTA123JK (R1 = 2.2K, R2 = 47K) DTA123JU (R1 = 2.2K, R2 = 47K) DTA144EU (R1 = 47K, R2 = 47K)



DTA144ES (R1 = 47K, R2 = 47K)

TOP VIEW



DTC114TK (R1 = 10K, R2 = ∞) DTC123JK (R1 = 2.2K, R2 = 47K) DTC123JU (R1 = 2.2K, R2 = 47K) DTC144EK (R1 = 47K, R2 = 47K) DTC144EU (R1 = 47K, R2 = 47K)



OTC144EF (R1 = 47K, R2 = 47K)







FMW2





FMW7



FMW8



FMY3

FMS2



IMX1

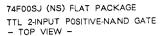


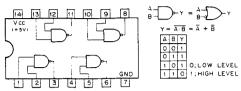
PT480F





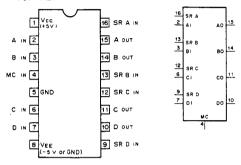




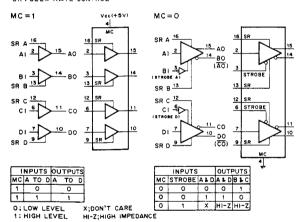


AM26LS30PC (ADVANCED MICRO DEVICES)

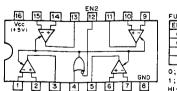




MC ; MODE CONTROL SR ; SLEW RATE CONTROL



AM26LS32PC (ADVANCED MICRO DEVICES) HIGH SPEED DIFFERENTIAL LINE RECEIVER - TOP VIEW -

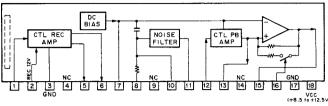


	FUNC	TION	TABLE	
	EN2		OUTPUT	
	0	0	ENABLE	
	0	1	ENABLE	
	1	0	HI-Z	
	1	1	ENABLE	
	0; LC	W L	EVEL	
			EVEL.	
-	-11 – Z	; HIGH	I IMPEDAN	CE

	SENSE	INPUT VOLT
LS32	± 200mV	± 7V
LS33	±500mV	±15V

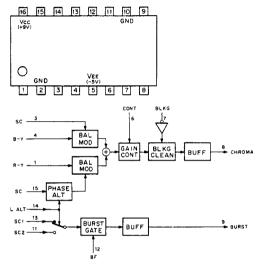
BX3914 (SONY)

CTL REC/PB AMPLIFIER - PRINTED SIDE -



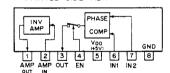
CX22017 (SONY)

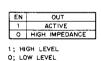
VIDEO SIGNAL PROCESSOR - TOP VIEW -



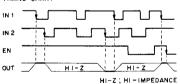
CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER — PRINTED SIDE VIEW —

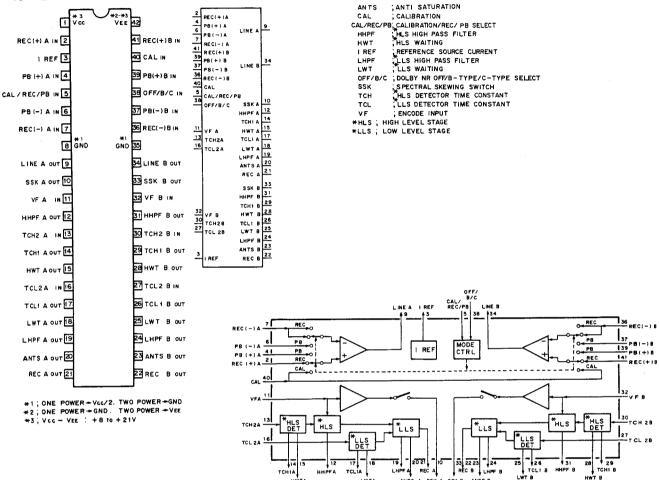


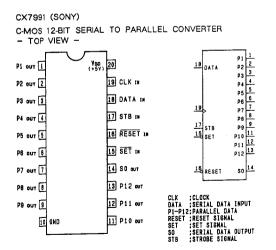


TIMING CHART



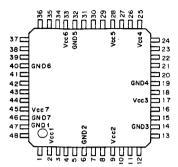
CX20188 (SONY) DOLBY B TYPE AND C TYPE, NOISE REDUCTION SYSTEM - TOP VIEW -





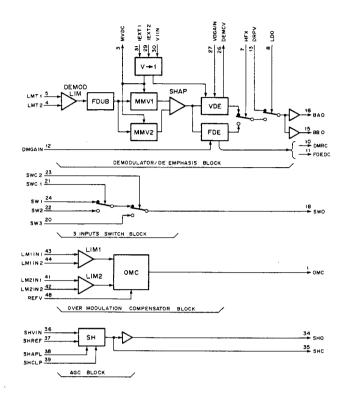
CXA1370Q (SONY)

DEMODULATOR/OVER MODULATION COMPENSATOR - TOP VIEW -



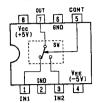
											(Vcc = + 5V)
PłN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
7	0	OMC	13	1	DRPV	25	-	Vcc4	37	1	SHREF
2	-	Vcc1	14	-	GND3	26	0	DEMCV	38	1	SHAPL
3	0	MVDC	15	0	BBO	27	1	VDGAIN	39	1	SHCLP
4	1	LMT2	16	0	BAO	28	-	Vcc5	40	-	GND6
5	1	LMT1	17	-	Vcc3	29	1	IEXT2	41		LM2IN1
6	-	GND2	18	0	SWO	30		VIIN	42	1	LM2IN2
7	1	HFX	19	-	GND4	31	T	IEXT1	43	i i	LM1IN1
8		LDO	20		SW3	32	-	GND5	44	1	LM1IN2
9	-	Vcc2	21	1	SWC1	33	-	Vcc6	45	-	Vcc7
10	0	DMRC	22	1	SW2	34	0	SHO	46	-	GND7
11	0	FDEDC	23		SWC2	35	0	SHC	47		GND1
12	Ī	DMGAIN	24		SW1	36	i i	SHVIN	48	1	REFV

5 LMT 4 LMT: 31 IEXT 29 IEXT 7 VOGA 12 DMG/ 13 ORPV 7 HFX 8 LD0 43 LM1!!	BBO I DEMCV IN DEMCV IN DMC FDEDC MVDC	26	INPUT DMGAIN DRPV HFX IEXT1, 2 LM1, 2 LM11, 2 LDO REFV SHAPL SHCLP SHCLP SHVIN SW1 - 3 SWC1, 2 VDGAIN	: FOR RESISTOR : VIDEO SIGNAL : SWITCH CONTROL : FOR RESISTOR : OVER MODULATION COMPENSATE LIMITER : DEMODULATE LIMITER : SWITCH CONTROL : REFERENCE VOLTAGE : FOR RESISTOR : SAMPLE HOLD PULSE : SAMPLE HOLD REFERENCE VOLTAGE : SAMPLE HOLD DEMODULATE VIDEO : 3 INPUT SWITCH : 3 INPUT SWITCH : GAIN CONTROL VOLTAGE
41 LM2II 42 LM2II 48 REFV 36 SHVII 37 SHRE 39 SHCL 24 SW1 22 SW2 20 SW3 21 SWC1 23 SWC2	N SHO F SHC L P	35	OUTPUT BAO, BBO DEMCV DMRC FDEDC MVDC OMC SHC SHO SWO	: SAMPLE HOLD S MPUT SWITCH DEMODULATOR VARIABLE DEEMPHASIS CONSTANT FIXED DEEMPHASIS CONSTANT FIXED DEEMPHASIS DECOUPLING MONOMULTI DECOUPLING OVER MODULATION COMPENSATER SAMPLE HOLD SAMPLE HOLD MULTING MUL



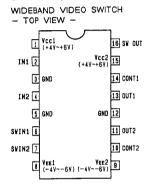
CXA1450M (SONY) FLAT PACKAGE

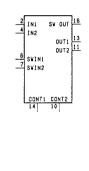
VIDEO SIGNAL SWITCH - TOP VIEW -





CXA1451M (SONY)

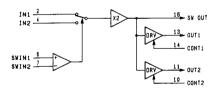




INPUT CONTI, 2; POWER SAVE CONTROL PIN OF DRV.1 AND DRV.2 INT1, 2; 1/2-CHANNEL INPUT PIN SWIN1, 2; IN1/IN2 PINS SWITCH CONTROL PIN

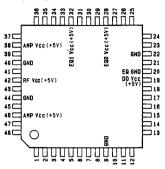
OUTPUT OUT 1, 2 SWOUT

: OUTPUT PIN OF DRV.1/2 : OUTPUTS IN1 PIN OR IN2 PIN WHICH HAS BEEN SELECTED BY SWITCH.



CXA1479Q (SONY)

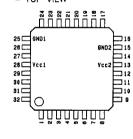
PB RF SIGNAL PROCESSOR FOR VTR - TOP VIEW --



PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	Ι⁄Ο	SIGNAL
1	ı	CHSW CONT	13	_	OFF SET1	25	Т	EQ2(A)IN	37	0	AB RF OUT
2	1	OFF SET2	14	1	IN A	26	ī	EQ2(MAIN)CNT	38	-	AMP Vcc
3	0	AOR OUT	15	1	EQSEL	27	1	EQ2(B)IN	39		RF(A)IN
4	1	ENV(B)	16	1	IN B	28	-	EQ2 Vcc	40	-	GND
5	ī	ENV(A)	17	-	DCPL1	29	0	EQ1 OUT	41	_	RF(B)IN
6	0	TH OUT	18	0	DO EQ	30	1	EQ1 CONT	42	-	RF Vcc
7		TH CONT	19		DO Vcc	31	1	EQ1(B)IN	43	-	RF(C)IN
8	0	DO OUT	20	-	EQ GND	32	-	EQ1 Vcc	44	-	GND
9	0	REF	21	0	EQ2(MAIN)OUT	33	1	EQ1(A)IN	45	_	RF(D)IN
10	1	ENV IN	22	-	GND	34	1	GAIN CNT	46		AMP Vcc
11	0	DET OUT2	23	0	EQ2(SUB)OUT	35	0	SWD RF	47	0	CD RF OUT
12	0	DET OUT1	24	T	EQ2(SUB)CNT	36	ı	RF LEVEL	48	_	MODE CONT

CXA1480Q (SONY)

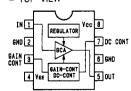
THROUGH RATE LIMITER - TOP VIEW -



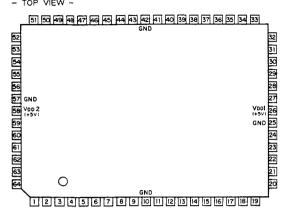
_					
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	- T	TH IN	17	0	SRL OUT
2	1 .	SRL CONT	18	1	SRL IN
3	T I	SRL C	19	_	SRRIN
4	1	SRL REF	20	0	SPR R OUT
5	1	LIM H	21	0	VCA OUT
6	-	LIM L	22	1	RG1 IN
7		SW IN2	23	0	RG1 OUT
8	1	SH IN	24	0	AMP OUT
9	0	SH C	25	-	GND1
10	0	SH OUT	26	1	AMP IN
11		SH PLS	27	ı	AMP REF
12	1	SW PLS	28	-	Vcc1
13	-	Vcc2	29	- 1	₽G2 IN
14	0	SW OUT	30	1	VCA CONT
15		GND2	31	0	COMP OUT
16	-	SW IN1	32	0	COMP SIG

CXA1521M (SONY)

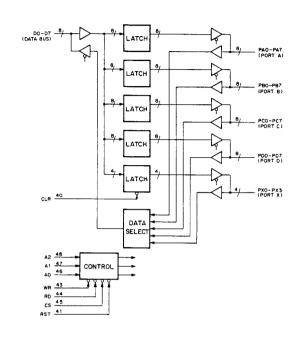
GAIN CONTROL AMP - TOP VIEW -



CXD1095Q (SONY) FLAT PACKAGE C-MOS I/O PORT EXPANDER - TOP VIEW -



PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	out	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			NC.	17	0	0	PC6	33			NC	49	0	0	PXO
2			NC	18	0	0	PC7	34			NC	50	0	0	PX1
3	0	0	PB 1	19			NC	35	0	0	D3	51			NC
4	0	0	PB 2	20	0	0	PDO	36	0	0	04	52	0	0	PX 2
5	0	0	P83	21	0	0	PD1	37	0	0	D5	53	0	0	PX3
6	0	0	P84	22	0	0	PD2	38	0	0	D6	54	0	0	PAO
7	0	0	PB5	23	0	0	PD3	39	0	0	D7	55	0	0	PAT
8	0	0	PB6	24	0	0	PD4	40	0		CLR	56	0	0	PA2
9	0	0	PB7	25			GND	41	0		RST	57		I	GND
10			GND	26	0		VD0 (+5V)	42			GND	58	0		V00(+5V)
11	0	0	PC0	27	0	0	PD5	43	0		WR	59	0	0	PA3
12	0	0	PC1	28	0	0	PD6	44	0		RD	60	0	0	PA4
13	0	0	PC2	29	0	0	P07	45	0		cs	61	0	0	PA5
14	0	0	PC3	30	0	0	00	46	0		AO	62	0	0	PA6
15	0	0	PC4	31	0	0	D1	47	0		Αl	63	0	Q	PA7
16	0	0	PC5	32	0	O	02	48	0		A2	64	0	0	PB0

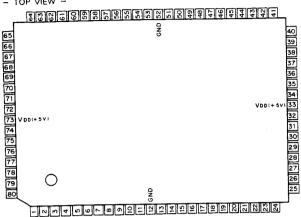


		PAO	54	CS	RD	WR	A2	A 1	AO	MODE
		PA 1	55	0	0	1	0	0	0	PORT A - DATA BUS
		PA 2	56	0	0	1	0	0	1	PORT 8 - DATA BUS
		PA 3	59	0	0	1	0	1	0	PORTC - DATA BUS
		PA4 PA5		0	0	1	0	1	1	PORT D - DATA BUS
30	00	PA 6		0	0	1	1	0	0	PORT X - DATA BUS
31	Di	PA7		0	0	1	1	0	1	
32	DZ			0	0	1	1	1	0	
35	D3	PBQ	64	0	0	1	1	1	1	<u> </u>
36 37	D4	PBI	1 4	0	1	0	0	0	0	DATA BUS PORT A
38	D5 D6	PB2	Γ.	0	1	0	0	0	1	DATA BUS-PORT B
39	D7	PB3	F	0	1	0	0	1	0	DATA BUS +PORT C
		PB5	{	0	+-	0	0	1	1	DATA BUS-PORT D
49	PXQ	PB6	8	0	1	0	1	0	0	DATA BUS-PORT X
50	PXI	PB7	9	10	+	0	1	0	1	
53	PX2 PX3		١.,	1	1	0	1	1	0	DATA BUS -CTL REG.1
	PX3	PC0 PC1	12	0	+	0	1	<u> </u>	1	DATA BUS -CTL REG.2
46	40	PC1	13	١Ť	T _x	x	×	×	×	DATA BUS : HI-Z
47	Al	PC3			1^-			^	^	DAIR BOO, IN E
48	A 2	PC4	15		0; L0					
48		PCS	1		1; H					
450	cs	PC 6	1	ш.	X; D				c E	
43	RD	PC7	18	mı-	Z, n	IUn	IMIT C	UMIT	CE	
7	₩ĸ	PDO	20							
410	RST	POt	21	DO-	D7;	DAT	A BU	S IN	PUT:	S/OUTPUTS
40	CLR	PD2	22		cs;					
		PD3	23							IPUT
		PD4	24							INPUT
		PO5	27		-A2 ;					
		P06	29		RST;					
		P07	-							OUTPUTS
			•							OUTPUTS
				PCO-	PC7	POR	тс	INP	uTS/	OUTPUTS
										OUTPUTS
				PXO-	PX3;	POR	ТΧ	INP	JTS/	OUTPUTS

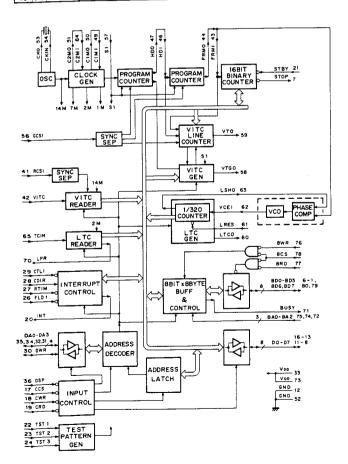
CXD1132Q (SONY) FLAT PACKAGE

CMOS TIME CODE GENERATOR/READER

TOP VIEW -



PIN	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
NO.			17		ccs	33	 -	Vpp	49	11	C1MI	65	-	TCIN
1	1/0	DB5		H	CWR	34	1/0	DAI	50	0	C1MO	66	0	DCLK
2	1/0	DB4	18	-!-		35	1/0		51	0	C2MO	67	0	DATA
3	1/0	DB3	19		CRD		11/0		52	<u> </u>	GND	68	0	RFLD
4.	1/0	DB2	20	0	INT	36	!-	DSP			CKO	69	0	ROSY
5	1/0	DB1	21	' _	STBY	37	0	DTSE	53	0		-	0	LRP
6	1/0	DB0	22	1	TST1	38	0	VRCK	54	1	CKIN	70	-	
-	0	STOP	23	Ti.	TST2	39	1	SLLM	55	1	SLCK	71	0	BUSY
8	100	D7	24	T	TST3	40	0	RVDO	56		GCSI	72		BA2
	1/0	D6	25	1	PON	41	1 1	RCSI	57	1	S1	73	ᆫ	V _{DD}
9	+	D5	26	+÷	FLD1	42	t	VITC	58	0	VTGO	74	T	BA1
10	1/0		27	 	RTIM	43	$+$ $\dot{-}$	FRMI	59	0	VTO	75		BA0
11	11/0	D4		+		44	0	FRMO	60	0	LTCO	76	T	BWR
12	1=	GND	28	<u> </u>	CDIR	<u> </u>		GLSY	61	+-	LRES	77	1	BRD
13	1/0	D3	29	1	CTLI	45	0		-	+÷	VCEI	78	÷	BCS
14	1/0	D2	30	1/0	DWR	46	11	HDI	62	+ - 1			1/0	BD7
15	11/0	D1	31	1/0	DA3	47	0	HDO	63	0	LSHO	79	+	
16	1/0		32	1/0	DA2	48	0	VDO	64	1.1	C2MI	80	11/0	BD6



```
BAO-BA2

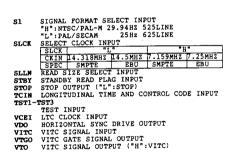
B ADDRESS INPUTS
BCS B CHIP ENABLE INPUT ("L":ENABLE)
BDO-BD7

B DATA I/O
BRD B READ INPUT ("L":READ)
BUSY B BUSY OUTPUT
BWR B WRITE INPUT ("L":WRITE)
CIMI SYSTEM CLOCK INPUT
C2MO CLOCK 1 OUTPUT (CKIN X 1/16)
CZMO CLOCK 2 OUTPUT (CKIN X 1/8)
ADDRESS LATCH ENABLE INPUT ("L":ENABLE) (when DSP is high)
CDIR CTL DIRECTION INPUT
CKIN SYSTEM CLOCK SYSTEM

ADDRESS INPUTS
CCC CLOCK OUTPUT ("L":READ)
CTLI CTL SIGNAL INPUT
CCC CK COUTPUT ("L":READ)
DAD-DA3

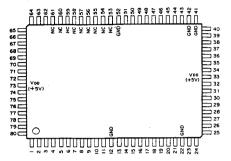
D ADDRESS INPUTS
DAO-DA3

D ADDRESS INPUTS (when DSP is high)
D ADDRESS INPUTS (when DSP is low)
DATA DEMODULATED SERIAL DATA OUTPUT
DSP DISLAY BUS SELECT INPUT
DSP DISLAY BUS SELECT INPUT
DSP CONTCIS CCS, DAO-DA3 and DVR.
DTSE VITC DATA SEARCH FLAG OUTPUT
DWR WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)
E ADDRESS A INPUT (when DSP is high)
EAA DADRESS BUS INPUT
DWW WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)
E ADDRESS A INPUT ("L" ENABLE) (When DSP is high)
EAA ADDRESS BUS INPUT
DWR WRITE ENABLE OUTPUT ("L":ENABLE) ("L":FILD 1)
FRMI FRAME SIGNAL OUTPUT
TRMO PRAME SIGNAL OUTPUT
HON HORIZONTAL SINC INPUT
HON HORIZONTAL SINC INPUT
HON HORIZONTAL SINC OUTPUT
LER LIT CREAD REQUEST OUTPUT
LER LIT CREAD REQUEST OUTPUT
LERS LIT CC COUNTER RESET INPUT ("L":RESET)
LSBO SYNCHRONOUS SIGNAL OUTPUT
PON SYSTEM RESET INPUT ("L":RESET)
LSBO SYNCHRONOUS SIGNAL OUTPUT
RCSS RESET INPUT ("L":RTIM)
TIME ADDRESS RESET INPUT ("L":RESET)
RCSS RESET INPUT ("L":RTIM)
TIME ADDRESS RESET INPUT ("L":RESET)
RCSS RESET INPUT ("L":RTIM)
RTMO YUTC READ DATA OUTPUT
```



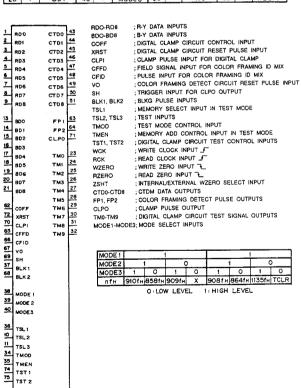
CXD1151Q (SONY)

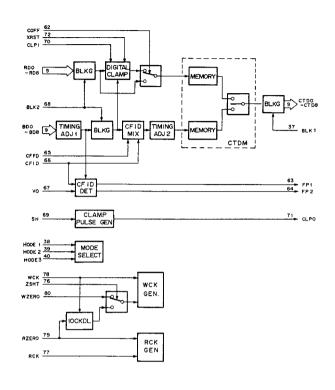
C-MOS VIDEO SIGNAL PROCESSOR FOR BETACAM — TOP VIEW —



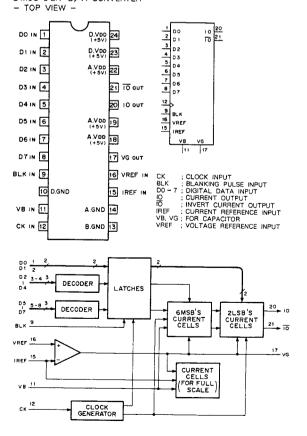
PIN ASSIGNMENT

Pin NO.	1/0	SIGNAL	Pin NO.	1/0	SIGNAL	Pin NO.	1/0	SIGNAL	Pin NO.	1/0	SIGNAL
1	ı	RDO	21	ı	BD8	41		N C	61		NC
2	ı	RDI	22	-	Vss (GND)	42	-	Vss (GND)	62	1	COFF
3	- 1	RD2	23	0	TMO	43	0	CTDO	63	1	FP1
4	1	RD3	24	0	TM1	44	0	CTD1	64	1	FP2
5	1	RD4	25	0	TM2	45	0	CTD2	65	1	CFFD
6	1	RD5	26	0	TM3	46	0	CTD3	66	ŧ	CFID
7	ı.	RD6	27	0	TM4	47	0	CTD4	67	1	VO
8		RD7	28	0	TM5	48	0	CTD5	68	- 1	BLK2
9	1	RD8	29	0	TM6	49	0	CTD6	69	.1	SH
10	ı	TSL2	30	0	TM7	50	0	CTD7	70	- 1	CLPI
11	1	TSL3	31	0	TM8	51	0	CTD8	71	0	CLPO
12	Ι=	Vss (GND)	32	0	TM9	52	-	Vss (GND)	72	1	XRST
13	,	BDO	33	ī	Vop (+5V)	53		NC	73	1	Vao (+5V)
14	ī	BD1	34	1	TMOD	54		N C	74	ŀ	TST1
15	3	BD2	35	7	TMEN	55		NC	75	1	TST2
16	1	BD3	36	1	TSL 1	56		NC	76	1	ZSHT
17	1	BD4	37	1	BLK1	57		NC	77	1	RCK
18	- 1	BD5	38	1	MODE 1	58		NC	78	1	WCK
19		BD6	39	1	MODE 2	59		NC	79	ı	RZERO
20	1	BD7	40	-	MODE 3	60		NC	80	1	WZERO





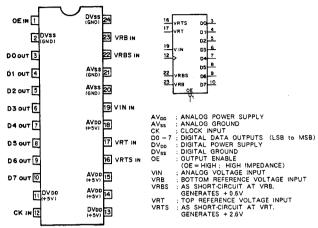
CXD1171M (SONY) FLAT PACKAGE C-MOS 8-BIT D/A CONVERTER



WCK RCK WZERO

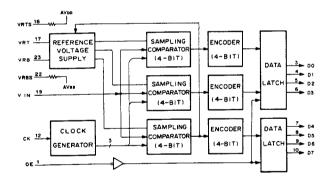
80 WZERO

CXD1175AM (SONY) FLAT PACKAGE C-MOS 8-BIT 20MSPS VIDEO A/D CONVERTER - TOP VIEW

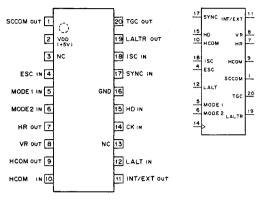


	INPUT SIGNAL			Ω.	ATA O	UTPU	TS		
STEP	VOLTAGE	D7	D6	D5	D4	D3	D2	D1	DO
0	OV (VRT)	1	1	1	1	1 1	1	1	1
1	0.01V	1	1	1	1	1	1	1	0
- :	:		-					:	:
	•		:	1	1 :	1	1	:	- 1
127	1.34V	1	0	0	0	0	0	0	0
128	1.35V	0	1	1	1	1	1	1	1
			1				-	1	- ;
	<u> </u>		1	1	1 :	1	:	1 :	- :
255	2.7V (VRB)	0	0	0	0	0	0	0	0

0 : LOW LEVEL

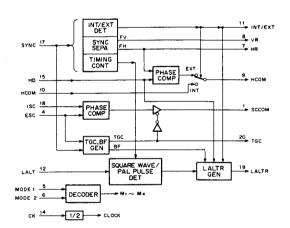


CXD1216M (SONY) FLAT PACKAGE C-MOS GENLOCK DRIVER - TOP VIEW -



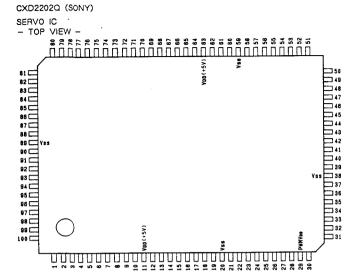
	TU ^c	MODE	SYSTEM
MODE1	MODE2	IVIÇDE	SISIEM
0	0	M1	PAL-VBS
1	0	M2	PALM-VBS
0	1	M3	PAL,SECAM-VS/SC/LALT
1	1	M4	NTSC-VBS,NTSC-VS/SC PALM-VS/SC/LALT

0 : LOW LEVEL 1 : HIGH LEVEL



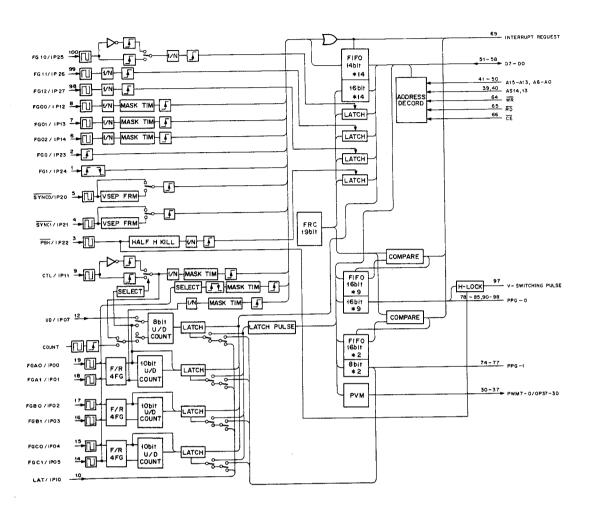
INPUT CK ESC HCOM HD ISC LALT MODE1,2 SYNC 4fsc CLOCK INPUT SC/COLOR BURST PHASE COMPARATE FROM CXD1217 H DRIVE FROM CXD1217 SUBCARRIER FROM CXD1217 LALT FROM REFERENCE SIGNAL GENERATOR SYSTEM SELECT SYNC FROM REFERENCE SIGNAL GENERATOR

OUTPUT
HCOM : PHASE COMPARATOR HR WITH HD
HR : fH OF SYNC SEPARATE
INT/EXT : INTERNAL/EXTERNAL SPECIFIED
LALTR : LINE CHANGE RESET
SCCOM : PHASE COMPARATOR ESC WITH ISC
TGC : TRISTATE CONTROL
VR : fV OF SYNC SEPARATE



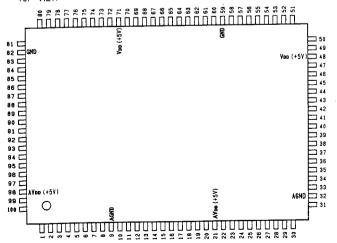
											$(V_{DD} = + 5V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PN o	1/0	SIGNAL
1	1	FG1/IP24	26	1/0	10P2	51	1/0	D7	76	0	PPG11/0P21
2	1	FG0/IP23	27	1/0	IOP1	52	1/0	D6	77	0	PPG10/OP20
3	1	PBH/IP22	28	1/0	IOP0	53	1/0	D5	78	0	PPGOF/OP17
4	1	SYNC1/IP21	29	-	PWM VDD	54	1/0	D4	79	0	PPGOE/OP16
5	1	SYNCO/IP20	30	0	PWM7/0P37	55	1/0	D3	80	0	PPGOD/OP15
6	1	FG02/IP14	31	0	PWM6/OP36	56	1/0	D2	81	0	PPGOC/OP14
7	1	FG01/IP13	32	0	PWM5/0P35	57	1/0	D1	82	0	PPG08/0P13
8	1	FG00/IP12	33	0	PWM4/0P34	58	1/0	D0	83	0	PPGOA/OP12
9	1	CTL/IP11	34	0	PWM3/0P33	59	-	Vss	84	0	PPG09/0P11
10	1	LAT/IP10	35	0	PWM2/0P32	60		RES	85	0	PPG08/OP10
11	-	VDD	36	0	PWM1/0P31	61	1	MD1	86	0	CLKO
12	- 1	UD/IP07	37	0	PWM0/OP30	62		MD0	87	- 1	EXTAL
13	- 1	CCLK/IP06	38		Vss	63	-	VDD	88	0	XTAL
14	- 1	FGC1/IP05	39	1	AS14	64		WR	89	-	Vss
15	1	FGC0/IP04	40		AS13	65	- 1	RD .	90	0	PPG07/OP07
16	1	FGB1/IP03	41	1	A15	66	1	CE	9	0	PPG06/OP06
17	1	FGB0/!P02	42	1	A14	67	0	IREQ2	92	0	PPG05/OP05
18	1	FGA1/IP01	43		A13	68	0	IREQ1	93	0	PPG04/OP04
19	1	FGA0/IP00	44	1	A6	69	0	IREQ0	94	0	PPG03/OP03
20	_	Vss	45	1	A 5	70	1	FXSEL	95	0	PPG02/OP02
21	1/0	IOP7	46	1	A4	71	0	OP26	96	0	PPG01/0P01
22	1/0	IOP6	47		A3	72	0	EXCST / OP25	97	0	PPG00/OP00
23	1/0	IOP5	48	1	A2	73	0	EXCSO/OP24	98	. 1	FG12/IP27
24	1/0	IOP4	49	1	A1	74	0	PPG13/OP23	99		FG11/IP26
25	1/0	IOP3	50		A0	75	0	PPG12/0P22	100		FG10/IP25

41			51	INPUT	
12	A15	07	52		ADDRESS BUS
43	A14	06	53	A\$13, A\$14	SELECTING CONDITION OF ADDRESS DECODER AS13 AND AS14 BITS
44	A13	05	54	CCLK	8-BIT COUNTER CLOCK INPUT
45	A6	04	55	CE	CHIP ENABLE
	A5	03	56	CTL	RESOLUTION 2.5MHz WITH EDGE SELECT FUNCTION.
46 47	A4	D2		EVEN	WITH FREQUENCY DIVISION MASK TIMER CRYSTAL OSCILLATION OR EXTERNAL CLOCK INPUT
	A3	Di	57	EXTAL EG0	RESOLUTION 2.5MHz
48	¥2	DQ.	58	FG00 - FG02	FREQUENCY DIVISION ENABLE RESOLUTION 2.5MHz.
49	A1				WITH FREQUENCY DIVISION MASK TIMER
50	A	1097	21	FG1	RESOLUTION 2.5MHz BOTH EDGES
		1096	22	FG10 FG11, 12	EDGE SELECTION ENABLE RESOLUTION 10MHz FREQUENCY DIVISION ENABLE RESOLUTION 10MHz
39	AS14	I QP5	23	FGA0	PERFORMS FORWARD / REVERSE BOTATION
40	AS13	IOP4	24	10.0	DETECTION AND 4FG COUNT (UP/DOWN) BY FGAO AND FGA1. 10 BITS. UP/DOWN IS MADE BY CONTROLLING THE UP/DOWN OF 8-BIT COUNTER.
		I 0 P 3	25		AND FGA1. 10 BITS. UP DOWN IS MADE BY
88	FG12/1P27	10P2	26		CONTROLLING THE UP/DOWN OF 8-BIT COUNTER.
99	F611/IP26	1001	27	FGA1	: 4FG PERFORMS FREQUENCY DIVISION AND FRC CAPTURE THROUGH MASK TIMER.
100	F610/IP25	1000	28		*1: SELECTS ONE OF FGAO TO FGC1 INPUT AND
. 6	FG02/IP14	-314			DETECTS BOTH EDGES AND PERFORM THE FRC
7	FG01/IP13	PWH7/0P37	30		CAPTURE THROUGH THE MASK TIMER.
8	F600/IP12	PWM6/0P36	31	FGB0	PERFORMS FORWARD REVERSE ROTATION
_1	FG1/1P24	PWM5/0P35	32	FGB1	DETECTION AND 4FG COUNT BY FGB0 AND FGB1. ; *1: SELECTS ONE OF FGA0 TO FGC1 INPUT AND
2	FG0/IP23	PWM4/0P34	33	rubi	DETECTS BOTH EDGES AND PERFORM THE FRC
	F94/1723	PWH3/0P33	34		DETECTS BOTH EDGES AND PERFORM THE FRC CAPTURE THROUGH THE MASK TIMER.
4	SYNC1/IP21	PWH2/0P32	35	FGC0	PERFORMS FORWARD/REVERSE ROTATION
. 5			36	5001	DETECTION AND 4FG COUNT BY FGCO AND FGC1.
_	SYNC0/IP20	PWM1/0P31	37	FGC1	; *1: SELECTS ONE OF FGAO TO FGC1 INPUT AND DETECTS BOTH EDGES AND PERFORM THE FRC
3		PWM0/0P30			CAPTURE THROUGH THE MASK TIMER.
	PBH/IP22		78	FXSEL	FREQUENCY DIVISION SELECTION OF CLOCK INPUT
9		PPG0F/0P17	79	LAT	EXTERNAL LATCH TIMING OF UP/DOWN COUNTER
10	CTL/IP11	PPG0E/OP16	80	MD0, 1 PBH	; TEST MODE DESIGNATION ; INPUT OF COMPOSITE SYNC OR H SYNC.
12	LAT/IP10	PPG00/0P15	81	FDF	RESOLUTION 10MHz, WITH HALF H KILLER.
13	UD/1907	PPG0C/OP14	82	RD :	; REDE
_	CCLK/IP06	PPG0B/OP13	83	RES	RESET
14		PPG0A/OP12		SYNCO, 1	; INPUT OF COMPOSITE SYNC OR V SYNC. RESOLUTION 2.5MHz.
15	FGC1/IP05 FGC0/IP04	PPG13/0P23 PPG12/0P22	175	UD :	8-BIT COUNTER UP/DOWN INPUT
16	FG81/IP03	PPG11/0P21	76	WR	WRITE
17	FG80/IP02	PP610/0P20	77	XOUTPUT	
18	FGA1/IPO1	PPG09/0P11	84	CLKO	; CLOCK OUTPUT
19	FGAO/IPOO	PPG08/0P10	85	EXCSO, 1	DECODE AT ADDRESS AS LEVEL
	FGAU/ IPGO	PP808/UP10		IREQO	: INTERRUPTION SIGNAL OF FRC CAPTURE UNIT
61	MD1	PPG07/0P07	90	IREQ1	COINCIDENCE INTERRUPTION OF PPG0 COINCIDENCE INTERRUPTION OF PPG1
62	HD0	PPG06/0P06	91	IREQ2 OP26	EXCLUSIVELY OUTPUT PORT
60	RES	PPG05/0P05	92	PPG00 - PPG0	
70			93	PPG10 - PPG1	3 ; PROGRAMMABLE PULSE GENERATOR
87	FXSEL	PPG04/0P04	94		RESOLUTION 1.25MHz PPG00 : WITH HLOCK
_	EXTAL	PPG03/0P03	95	PWM0 PWM	5 ; PWM OUTPUT NORMALLY PWM, OR PWM0 AND PWM1, PWM2 AND PWM3, OR PWM4 AND PWM5
		PPG02/0P02	96		OUTPUT SIGNAL CORRESPONDED TO PUSH-PULL.
		PPG01/OP01	97	PWM6, 7	: PWM OUTPUT
		PPG00/0P00		XTAL	; CRYSTAL OSCILLATION
			71	1. In 12 (0) (27)	•
		0P26		INPUT/OUTPUT DO - D7	; DATA BUS
			72	IOPO - IOP7	SELECTS AND USES INPUT AND OUTPUT BY
		EXCS1/OP25	73		EVERY 1 BIT.
		EXCSO/OP24			
		*****	57		
		IREQ2	<u>6</u> 8		
		[REQ1	69		
		[REQ0	~را		
			86		
		CLKO	88		
		XTAL			
			l		
	WR	RD CE	ļ		
	649	65Y 66Y			



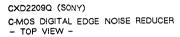
CXD2207Q (SONY)

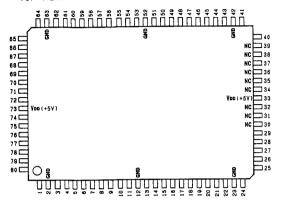
C-MOS TBC WRITE CLOCK GENERATOR FOR BETACAM - TOP VIEW -



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	⊬ 0	SIGNAL
1	0	SYNC	26	1	FOPO	51	_	PBE	76	T.	SVLK
2	1	BLK	27	1	SHOT	52		NOS	77	I	SVD
3	1	VIN4	28	T	BCPI	53	1	SPD	78	Ţ,	OFF
4	1	REF3	29	0	BCPO	54		R20	79	0	IOCK
5	T	VIN3	30	- 1	EOPX	55		FBID	80	0	CS
6	0	VOT3	31	0	EOPO	56	. 1	DO	81	70	MOO
7	1	AI3	32	_	AGND	57	1	GBD	82	_	GND
8	1	ACPI	33	1	AI2	58	1	GAT	83	70	MO1
9	-	AGND	34	1	DOPI	59	-	GND	84	10	M02
10	T	ACPX	35	1	DOPX	60		GH	85	70	MO3
11	0	ACPO	36	0	DOPO	61	0	WCP	86	10	MO4
12	T	SMPL	37	T	VCOI	62	0	ACP	87	70	M05
13	T	CHIN	38	- 1	VCEN	63	0	TOUT	88	70	M06
14	1	BOPX	39	1	MD1	64	0	AZ2	89	70	M07
15	1	BOPO	40	1	MD2	65	0	AZ1	90	1	AMD
16	1	SHC1	41	1	INT	66	0	WZ	91	Ĭ	VIN2
17	1	SHC2	42	1	YC	67	-	CKN	92	Ī	REF1
18		SH2I	43	1	TMOD	68	0	GCK	93	1	REF2
19	0	ER1	44	1	TCK	69	0	ACK	94	ī	VIN1
20	0	ER2	45	1.	TDAT	70	0	XCK	95	1	AOPI
21	-	AVDD	46	T	BTS	71	-	VDD	96	_	AOPX
22	1	COPI	47	1	REST	72	0	СН	97	0	AOPO
23	1	COPX	48	-	Voo	73	0	SSH	98	-	AVDD
24	0	COPO	49	1	DDF	74	0	DCP	99	_	Al1
25	T	FOPX	50	0	SHO	75	ı	ERR	100		CCPI

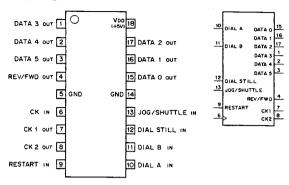
(No = AV00 = + 5V)

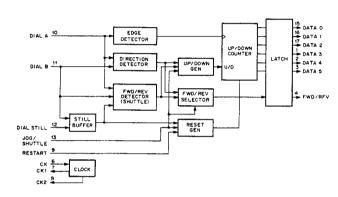


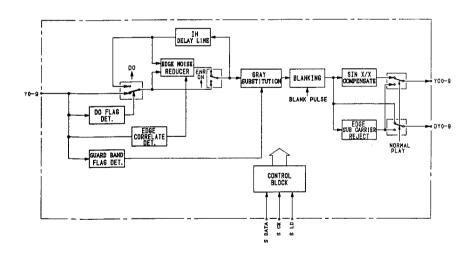


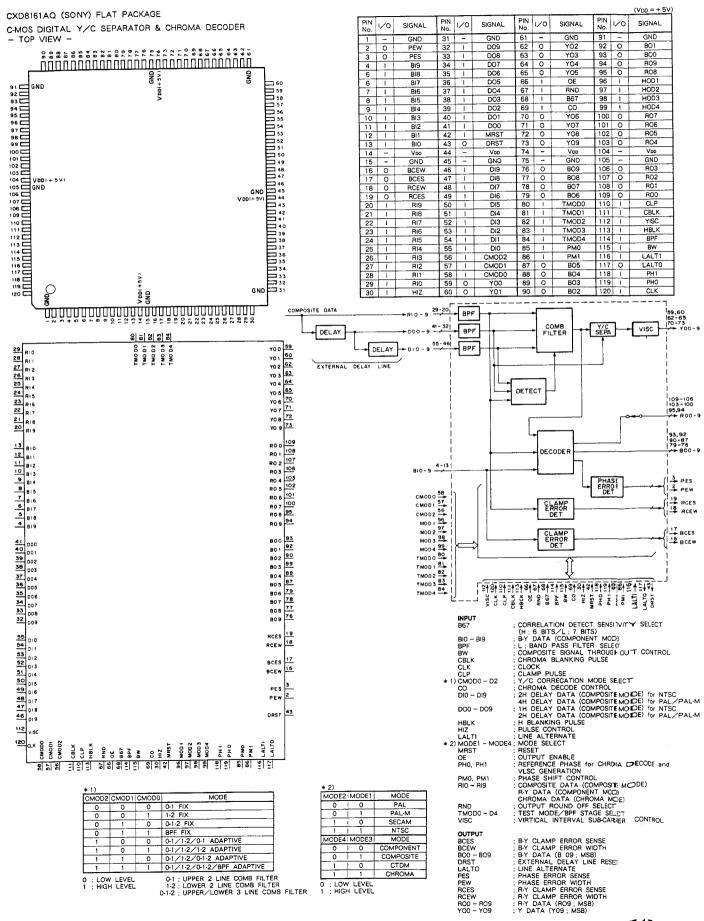
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1		YO	21		L;DT	41	Ö	Y00	61	0	DY8
2	-	GND	22	1	DO	42	-	GND	62	0	DY9
3	1	CK	23	-	GND	43	0	Y01 -	63		GND
4		L ; BID	24		D1	44	0	Y02	64	1	OE2
5		L ; CBLK	25		ENS1	45	0	Y03	65	1	DSTB
6	1	L ; VBLK	26	_	ENS0	46	0	Y04	66		SLD
7	1 1	H SYN	27	1	MOD1	47	0	Y05	67	l	SDAT
8	11	VISC	28	12	MOD2	48	0	Y06	68	- 1	SCK
9		L ; X30	29	i	MODS	49	0	Y07	69	0	STP
10		L;SW1	30	-	_	50	0	Y08	70	0	SOUT
11		L ; GRSW	31	T -	_	51	0	Y09	71	1	Y9
12	-	GND	32	-	-	52	- _	GND	72		Y8
13		NROF	33	-	VDD	53	0	DYO	73	-	VDD
14		EOFF	34	-	-	54	0	DY1	74		Y7
15	11	L : DEF	35	-	-	55	0	DY2	75	1	Y6
16		MUT1	36	T-		56	0	DY3	76	1	Y5
17		MUT2	37	-		57	0	DY4	77	1	Y4
18	T	DIGT	38	T-		58	0	DY5	78	1	Y3
19	ti	X75	39	-	-	59	0	DY6	79	1	Y2
30	† i -	AOEE	40	$+$ τ	OF1	60	0	DY7	80	1 1	Y1

CXD8117P (SONY) C-MOS DIAL DATA DECODER - TOP VIEW -

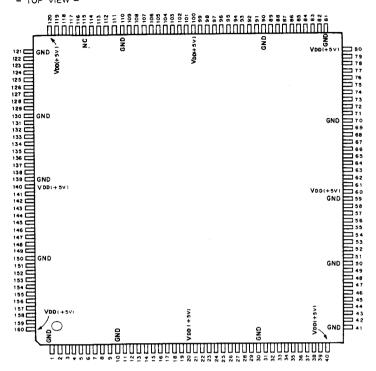








CXD8152Q (SONY) FLAT PACKAGE
C:MOS VIDEO DATA PROCESS/SYNC GUARD/MEMORY CONTROLLER
- TOP VIEW -



											$(V_{DD} = + 5V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	0	SIGNAL
1	- 1	GND	41	-	GND	81	-	GND	121	-	GND
2	1	FWDXREY	42	1/0	RMAB	82	0	RBWLN	122		DIN9
3		X13	43	1/0	RYCLR	83	0	COMPBLK	123	1	DIN8
4	1	NOIPB	44	1/0	WMAB	84	0	YBLK2	124	_	DIN7
5		HEE	45	0	WYCLR	85	0	YBLK1	125	1	DIN6
6		HINPHASE	46	1/0	TDT0	86	0	ADYYBLK	126	-	DIN5
7		SHIFTINH	47	1	TST5	87	0	ADDTHRU	127	- 1	DIN4
8	0	YSCEXEP!	48	_	TST4	88	0	RDIZ	128	1	DIN3
9	0	YSCDTFP2	49	1	TST3	89	0	RCK	129		DIN2
10	-	GND	50	-	GND	90	-	GND	130		GND
11		OSCON	51	1	TST2	91	0	YCLR2	131		DIN1
12	1	MOD6	52	1	TST1	92	0	INC2	132	1	DIN0
13	1	DT	53	ī	TST0	93	0	HCLR2	133		WCK
14		DTX3	54	1	RLMOFF	94	0	MRCK2	134		WZ
15	T	PBOE	55	T	FLMOFF	95	0	YCLR1	135	T	ADYWZ
16		DTY	56	T	MOD11	96	0	INC1	136		WCLP
17		SYY	57	1	MOD10	97	0	HCLR1	137	ł	YISCCMUT
18	1	SWP	58	ı	MOD7	98	0	MRCK1	138		PRCK
19	T	FRX3020	59	-	GND	99	0	YCLR0	139	- 1	GND
20	-	Voc	60	-	Voo	100	-	Voo	140	-	Voo
21	0	BINS	61	1/0	BID	101	0	INCO	141	1	PRZ
22	0	WINS	62	1/0	BIDDIR	102	0	HCLR0	142	_	PBSYNC
23	0	BWBLK	63	i	MOD4	103	0	DOCLR	143	0	WBLK
24	0	WHITECHT	64	ı	MOD3	104	0	MWCK	144	1/0	GH
25		DO	65	ī	MQD2	105	0	WE	145	0	SHW
26	1/0	PB16H	66	ı	MOD1	106	0	DOUTO	146	1/0	SDO1
27	1/0	PB2H	67	1	JUC	107	0	DOUT1	147	1/0	GB
28	0	COUNTERY	68	Т	SGBLK	108	0	DOUT2	148	0	WDIZ
29	1/0	PBY	69	ī	REFOE	109	0	DOUT3	149	1/0	FBID
30	-	GND	70	-	GND	110	-	GND	150	-	GND
31	0	WRITEY	71	П	READY	111	0	DOUT4	151	1/0	FFB
32	0	WOE	72	1	RZ	112	0	DOUT5	152	1/0	FRB
33	1/0	WYISCID	73	1	R456FH	113	0	DOUT6	153	0	FF30COFF
34	0	RYISCID	74	-	R2BH	114	0	DOUT7	154	0	FR30HDL
35	1/0	RYSET	75	1	R2FH	115	-	_	155		THRU2
36	1/0	WENP	76	T	HCK	116	0	DOUT8	156		THRUI
37	1/0	RENP	77	1	SDATA	117	0	DOUT9	157	1/0	NOSIG
38	1	LEYTST	78	i	SLD	118	0	SDO2WDO	158	0	PDSCONT
39	1	CLR	79	l-i-	SCK	119	Ī	HOE	159	0	SPDPWM
40	- 1	Vpp	80	-	Vpp	120	-	Vpo	160	- 1	Vob

		99	9	9	2 2	8	25	8 = 1	53	1 %	5	49	위	4	24	5	3	1 8	: :	1 5	1	
																						٦ .
132	DINO	MOD	MOD2	MOD 3	M004	MOD 7	MOD10	MOD 11		1510	TST 2	TST 3	TST 4	TST 5	RMAB	RVCLR	WMAB	#VCLR	TDTO	WVISCID	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	106
131		•	-	-	-		2	2 0			٠.			-	•	œ	-	3		≩ (2 DOUT!	1.07
129	DINI																				DOUT	
128	DIN2 DIN3																				000 T 3	1.00
127	DIN4																				DOUT	
126	DINS																				DOUT S	
125	DING																				DOUT	
124	DIN 7																				DOUT	10.0
123	DINS																		,		DOUTE	1
122	DING																				DOUT	14.7
\neg	פאוטן																					
133	wcĸ																				COMPBLE	83
134	wz																				VBLK	
135	ADVWZ																				VBLK	95
136	WCLP																				ADVVBL	-
142	PB SYNC	:																			ADDTHRU	
18	SWP																				RDI	_
25	00																				RC	89
137	VISCEMU	Ť																			DOCL	103
2	FWDXRE																				HCLR	
3		•																			HCLR	
_4	NOIPB																				HCLR	
5 6	HEE																				VCLR	99.
6	HINPHA	e F																			VCLR	los.
																					VCLR	91
13	DT																				INC	
14	DTX3																				INC	96
16	DTV																				INC :	92
17	svv																				we	105
29	PBV																				MWC	
13 14 16 17 29	PBOE																				MRCK	98
67	l																				MRCK	100
68	nc																					143
69	SGBLK																				W8L+	١
71	REFOE																				Gł	1 144
35	READV																				SHV	146
35 72	RVSET																				500	
73	RZ																				SDO2WD0	
73 74	R456FH																					مر ا
7.5	R2BH																				WDI	
76	R2FH																				FBI	·
19	HCK																				FFE FR	152
38	FRX302	J																				, l
75 76 19 38 39 54	LEVTST																				PDSCON*	
54	CLR RLMOFF																					159
55	FLMOFF																				S PDP WI	1.00
155													ā	P 2			ž	. ≥			FR3OHDL	1150
156	THRU 2		v		5			գո				Ğ.	X	DYF		ر د	; ;	ij	ě		RBWL	- 62
157	THRU 1	HOE	PRCK	PRZ	SDATA	SLD	ž	WENP	PB16H	PB2H	910	BIDDIR	VSCEXFP	VSCDTFP2	BINS	NINS NINS	WHITECHT	COUNTERV	WRITEV	WOE	NO WL	
\neg	110316					<u>8</u> 6	<u>~ -</u>	غة خ	o.	A.			> ᇑ	<u>~</u>	, Ta	≤ 0	3					L.
		<u>=</u>	흵	4	~	~ ~	1 3	8 5	98	01	2 [2	5	٦١,	11	v 6	N N	Ñ	ΑÍ	2	Μİ		

: YSO→L: ADD THROUGH, CSO→L: SECAM COMPOSITE V TOP

Y ADD CONTROL

H: BLACK REF INSERT PULSE

L: BLACK & WHITE REF BLANKING PULSE

COMPOSITE BLANKING

COUNTER V FWL

WRITE H CLEAR PULSE

: WORLE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN +30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN -30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN -30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MORE THAN -30 TIMES NORMAL SPEED/L: CHROMA OFF

:: MEMORY LINE ADDRESS COUNTER CLEAR PULSE

WRITE MEMORY LINE ADDRESS COUNTER CLOCK

READ MEMORY LINE ADDRESS COUNTER CLOCK

READ MEMORY AFTER CLOCK

READ MEMORY AFTER CLOCK

READ SYSTEM LINE (525: 11 LINE, 625: 8 LINE)

/L: COLOR FRAMING ID BLANKING PULSE (525: 15 LINE, 625: 12 UNE)

STRETCH ED DO PULSE

WINDOW TO DETECT HORIZONTAL SYNC

PB SPEED PWM

V BLANKING PULSE

ENR DOC INHIBIT PULSE

ENR DOC INHIBIT PULSE

WRITE MEMORY LINE ADDRESS COUNTER CLEAR PULSE

READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

READ MEMORY LINE ADDRESS COUNTER CLEAR PULSE

H: PB VISC PHASE COMPARISON ENABLE PULSE 1H: CFLD (-)

L: PB VISC PHASE COMPARISON ENABLE PULSE 1H: CFLD (-)

L: WRITE ENABLE

WRITE SYSTEM LINE ALTERNATE

WHITE CONTROL

H: WHITE REPRESENTER PULSE

YSG OUTPUT TO PB OF CSQ

'YSG OUTPUT TO PB OF CSQ

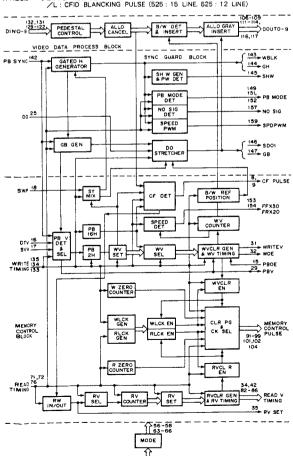
'YSG OUTPUT TO PB V OF CSQ OUTPUT ADDTHRU ADVVBLK BINS BWBLK COMPBLK COUNTERV DOCLR DOUTO - 9 FF30COFF FR30HDL HCLRO HCLR1, 2 INCO INC1, 2 MRCK1, 2 MWCK PDSCONT RBWLN RCK ROIZ RVISCID SD02WD0 SD02WD0 SHW SPDPWM VBLK1 VBLK2 VCLR0 VCLR1, 2 VSCDTFP2 VSCEXFP1 WBLK WE WELK
WE
WDIZ
WHITECNT
WINS
WOE
WRITEV

INPUT/OUTPUT

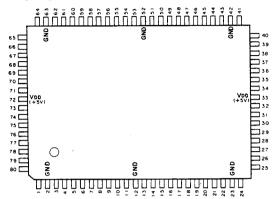
PUT

L: BIDIREX
H: FORWARD, L: REVERSE
L: FAST BIDIREX
L: FAST FORWARD BIDIREX
L: FAST REVERSE BIDIREX
L: FAST REVERSE BIDIREX
L: GUARD BAND
GATED H SYNC
L: NO. SIGNAL
ADVANCE WRITE ZERO RESET, 16 TIMES H RATE
PB V RESET, 2 TIMES H RATE
Y NORMAL PB V REFERENCE PULSE
L: READ EXTRACT INHIBIT PULSE
READ EXTRACT INHIBIT PULSE
READ EXTRACT INHIBIT PULSE
READ CLEAR LINE
YSO OUTPUT TO READ V OF CSQ
STRETCH ED DO PULSE
TIME CODE DATA
L: WRITE EXTRACT INHIBIT PULSE
WRITE EXTRACT PULSE
WRITE EXTRACT PULSE
WRITE EXTRACT PULSE
WRITE EXTRACT PULSE
WRITE CLEAR LINE
L: PB VISC BLANKING PULSE (525: 11 LINE, 525: 8 LINE)
/L: CFID BLANKING PULSE (525: 15 LINE, 625: 12 LINE) BID BIDDIR FBID FFB FRB GB GH NOSIG

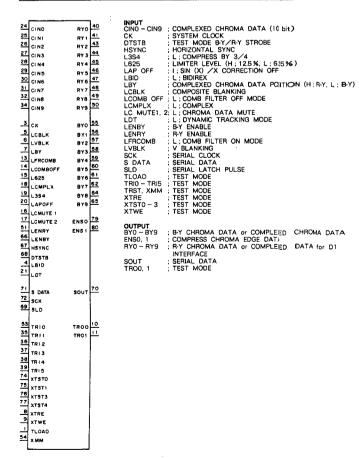
PB16H PB2H PBV RENP RMAB RVCLR RVSET SD01 TDT0 WENP WMAB WVCLR WVISCID



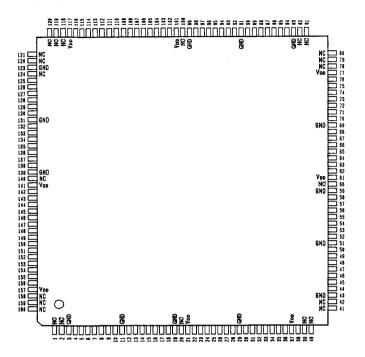
CXD8160Q (SONY) FLAT PACKAGE C-MOS DIGITAL CHROMA EXPANDER TOP VIEW -



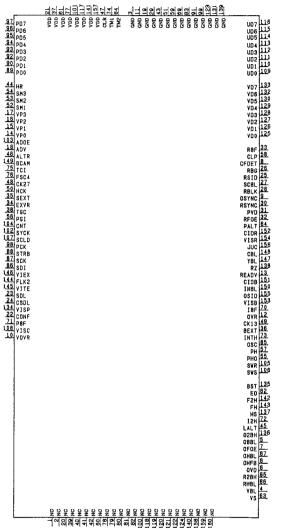
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	ī	TLOAD	21		L : DT	41	0	RY1	61	0	BY6
2	-	GND	22	1	TRST	42	-	GND	62	0	BY7
3	1	CK	23	-	GND	43	0	RY2	63		GND
4	1	LBID	24	1	CIN0	44	0	RY3	64	0	BY8
5		LCBLK	25	T	CIN1	45	0	RY4	65	0	BY9
6	TT	LVBLK	26	- 1	CIN2	46	0	RY5	66		LENBY
7	T	LBY	27	ı	CIN3	47	0	RY6	67		HSYNC
8	1	XTRE	28	1	CIN4	48	0	RY7	68		DTSTB
9	1	XTWE	29	1	CIN5	49	0	RY8	69		SLD
10	0	TRO0	30	1	CIN6	50	0	RY9	70	Э	S OUT
11	Ö	TRO1	31	1	CIN7	51		LENRY	71		S DATA
12		GND	32	Π,	CIN8	52	-	GND	72	_	SCK
13	1	LFRCOMB	33	-	VDD	53		TRIO	73	-	Voo
14	T	LCOMB OFF	34	Ī	CIN9	54	1	XMM	74		XTST0
15	T	L625	35.		TRII	55	0	BYO	75		XTST1
16	1	LC MUTE1	36	1	TRI2	56	0	BY1	76		XTST2
17	1	LC MUTE2	37	1	TRI3	57	0	BY2	77	ĺ	XTST3
18	1	LC MPLX	38	1	TRI4	58	0	BY3	78	Ι-	
19	1	L354	39	1	TRI5	59	0	BY4	79	0	ENS0
20	1	LAP OFF	40	0	RY0	60	0	BY5	80	0	ENS1



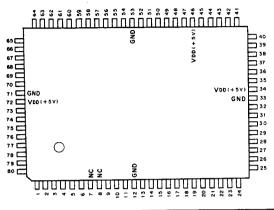
CXD8165Q (SONY) FLAT PACKAGE C-MOS REFERENCE SYNC GENERATOR - TOP VIEW --



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1		NC	41	-	NC	81	-	NC	121	-	NC
2	-	NC	42	<u> </u>	NC	82		NC	122		NC
3		GND	43	<u> </u>	GND	83	_	GND	123	-	GND
4	1/0	VBL	44		HR	84		TM2	124	-	NC
5	1/0	OBBL	45	1/0	LALT	85	0	osc	125	0	VD0
6	1/0	OVD	46	ı	ALTR	86	-	SD1	126		VD1
7	1/0	OFOE	47	1	CLR	87		SCK	127	0	VD2
8	0	CFDET	48	1	CK27	88		STRB	128		VD3
9	0	OSYNC	49	0	CK13	89	1/0	PD0	129	0	VD4
10	1	VOVR	50	1	HCK	90	1/0	PD1	130	0	VD5
11	_	GND	51	-	GND	91	1	GND	131	-	GND
12	0	OVR	52	1	SM1	92	1/0	PD2	132	0	VD6
13	0	READV	53	1	SM2	93	∨ 0	PD3	133	0	VD7
14	I	VP0	54	1	SM3	94	1/0	PD4	134	1	VISP
15	1	VP1	55	0	PHO	95	1/0	PD5		1/0	BST
16	i i	VP2	56	1	PHI	96	1/0	PD6	136	1/0	O2BH
17	1	VP3	57	0	PH	97	1/0	PD7	137	1/0	H\$
18	- 1	ADV	58	0	CLP	98	1	PCK	138	0	RZ
19	-	GND	59	-	GND	99	-	GND	139	- 1	GND
20	_	NC	60	-	NC	100	-	NC	140	-	NC
21	-	VDD	61	-	NC	101	+	VDD	141	-	VDD
22	_	CONF	62	1/0	EQ	102	_	SYCK	142	1/0	F2H
23	_	SDL	63	1/0	VS	103	_	ADOE	143	1/0	FH
24		CSDL	64	0	PALT	104		CNT	144		FLK2
25	0	RSID	65	\sim	R2BH	105	0	SWR	145		VITE
26	0	RBG	66	1/0	RHBL	106	0	SWS	146	1	VIEX
27	0	SCBL	67	V0	OHBL	107	1	SCLD	147	0	YBL
28	0	RBLK	68	1/0	OHFB	108	1	VISC	148	0	CBL
29	-	GND	69	-	GND	109	0	UD0	149	1	BCAM
30	0	RSYNC	70	0	I8F	110	0	UD1	150	0	ENBL
31	0	RVD	71	_	P8F	111	0	UD2	151	0	CID8
32	0	REOE	72	1/0	12H	112	0	UD3	152	0	CIDR
33	0	R8F	73	0	INTH	113	0	UD4	153	0	VISB
34	1	EXVR	74	1	TM1	114	0	UD5	154	0	VISR
35		SEXT	75	1	TCI	115	0	UD6	155	0	OSID
36	0	BEXT	76	1	FSC4	116	0	UD7	156	0	JUC
37		VDD	77	-	VDD	117	-1	VDD	157	-	VDD
38	, T	TGC	78	-	NC	118	-	NC	158	_	NC
39	-	NC	79	- 1	NC	119	-	NC	159	-	NC
40	-1	NC	80	_	NC	120	-	NC	160]	NC



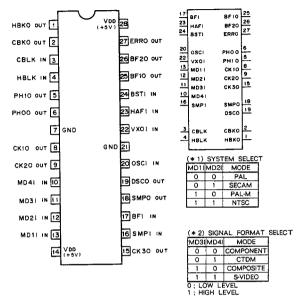
CXD8176AQ (NEC)
C-MOS DUAL PORT RAM CONTROLLER
- TOP VIEW -



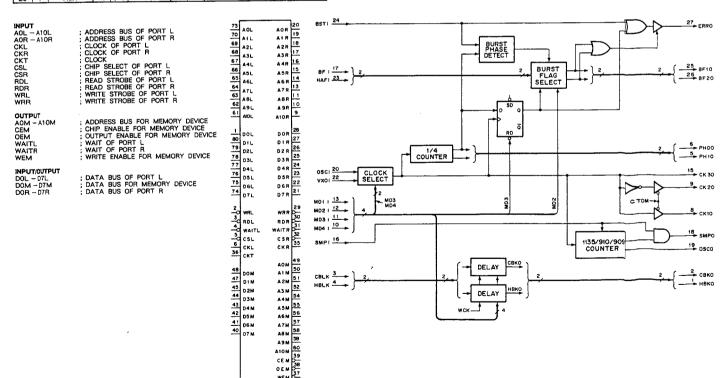
											$(V_{DD} = +5 V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	1/0	DOL	21	1/0	D7R	41	1/0	D6M	61		A10L
2	1	WRL	22	1/0	D6R	42	1/0	D5M	62	- 1	A9L
3	\vdash	RDL	23	1/0	D5R	43	1/0	D4M	63	1	A8L
4	0	WAITL	24	1/0	D4R	44	1/0	D3M	64	ı	A7L
5		CSL	25	1/0	D3R	45	1/0	D2M	65	1	A6L
6	T	CKL	26	1/0	D2R	46	-	Vob	66	1	A5L
7	-	NC	27	1/0	DIR	47	1/0	D1M	67		A4L
8	-	NC	28	1/0	DOR	48	0	D0M	68		A3L
9	1	A10R	29		WRR	49	0	AOM	69		A2L
10	İΤ	A9R	30		RDR	50	0	A1M	70	1	A1L
11	T	A8R	31	0	WAITE	51	0	A2M	71	_	GND
12	1-	GND	32	1	CSR	52	0	MEA	72	-	Voo
13	1	A7R	33	-	GND	53	-	GND	73		AQL
14	11	A6R	34	-	Vob	54	0	A4M	74	1/0	D7L
15	TT	A5R	35	T	CKR	55	0	A5M	75	1/0	D6L
16	T	A4R	36	1	CKT	56	0	A6M	76	1/0	D5L_
17	11	A3R	37	0	WEM	57	0	A7M	77	1/0	D4L
18	1	A2R	38	0	ŌĒM	58	0	A8M	78	1/0	D3L
19	11	AIR	39	0	CEM	59	0	A9M	79	1/0	D2L
20	T	AOR	40	1/0	D7M	60	0	A10M	80	1/0	DIL

CXD8243AM (SONY) FLAT PACKAGE

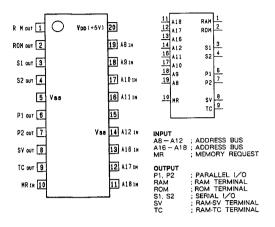
C-MOS DIGITAL YC SEPARATOR/DECODER/CTDM CLOCK GENERATOR - TOP VIEW -



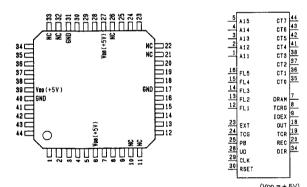
BSTI CBLK HAFI HBLK MD1, 2I MD3, 4I	: TRIGGER PULSE FOR BURST SAMPLING : H BLANKING PULSE : SYSTEM SELECT (* 1)	CBKO CK1 - 30 DSCO ERRO	BURST FLAG CHROMA BLANKING PULSE CLOCK, SELECTE) BY MODE TRAPEZOID GENIRATOR DISCHARGE PULSE BURST PHASE COMPARISON ERROR H BLANKING PUSE
		HBKO	
SMPI	TRAPEZOID SAMPLING PULSE OF		2FSC
VXOI	THE H LOCK LOOP ; BURST LOCK LOOP VCXO		; FSC ; TRAPEZOID SAMPLING PULSE OF THE H LOCK LOOP



CXD8310M (SONY)
C-MOS GATE ARRAY
- TOP VIEW -



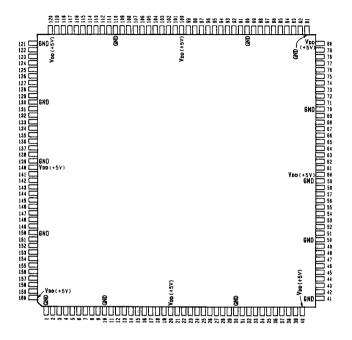
CXD8311Q (SONY) FLAT PACKAGE TIME CODE u-COM INTERFACE - TOP VIEW -



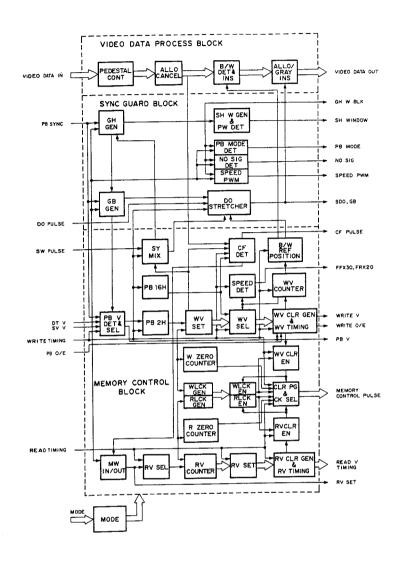
											(YUU - T UV)
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
T		A11	12	ı	FL1	23	Т	EXT	34	0	DIR
2	П	A12	13	T	FL2	24	1	TCG	35	0	СТО
3	1	A13	14	T	FL3	25	_	PB	36	0	CT1
4	I	A14	15	1	FL4	26	-	NC	37	0	CT2
5		A15	16	1	FL5	27	- 1	VDD	38	0	СТЗ
6	- 1	Voo	. 17	-	GND	28	1	UD	39	-	VDD
7	0	DRAM	18	0	OUT	29		CLK	40	-	GND
8	0	TCRG	19	0	TCR	30	_	RSET	41	0	CT4
9	0	IOEX	20	0	REC	31	-	GND	42	0	CT5
10	-	NC	21	-	NC	32	~	NC	43	0	CT6
11		NC	22	_	NC	33	-	NC	44	0	CT7

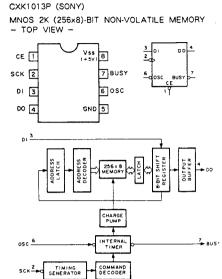
CUTPUT
CTO - CT7
DIR
DRAM, TCRG, IOEX
CHIP SELECT
OUT, TCR, REC
SELECTED TIME CODE

CXD8313Q (SONY) C-MOS TBC - TOP VIEW -

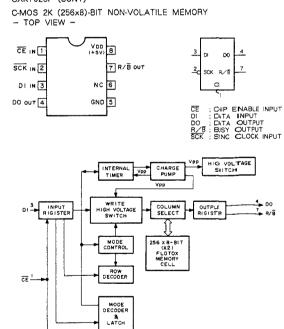


PIN No.	1/0	PIN NAME	PIN No.	1/0	PIN NAME	PIN No.	1/0	PIN NAME	PIN No.	1/0	PIN NAME
1	-	GND	41	-	GND	81	-	GND	121	-	GND
2		FWDXREV	42	1/0	RMAB	82	0	RBWLN	122	1	DIN9
3	1	X13	43	1/0	RVCLR	83	0	COMPBLK	123	\top	DIN8
4		NOIPB	44	1/0	WMAB	84	0	VBLK2	124	1	DIN7
5		HEE	45	1/0	WVCLR	85	0	VBLK1	125	T	DIN6
6		HINPHASE	46	1/0	TDTO	86	0	ADVVBLK	126	1	DIN5
7	T	SHIFTINH	47	1	TST5	87	0	ADDTHRU	127	T	DIN4
8	0	VSCEXFP1	48		TST4	88	0	RDIZ	128	- 1	DIN3
9	0	VSCDTFP2	49	1	TST3	89	0	RCK	129	1	DIN2
10	-	GND	50	-	GND	90	-	GND	130	-	GND
11		OSCON	51		TST2	91	0	VCLR2	131	1	DIN1
12		MOD6	52	1	TST1	92	0	INC2	132	П	DINO
13		DT	53	Π.	TST0	93	0	HCLR2	133	Ti.	WCK
14		DTX3	54	1	RLMOFF	94	0	MRCK2	134	1	WZ
15		PBOE	55		FLMOFF	95	0	VCLR1	135	1	ADVWZ
16	П	DTV	56	1	MOD11	96	0	INC1	136	1	WCLP
17		SVV	57		MOD10	97	0	HCLR1	137	1	VISCCMUT
18		SWP	58		MOD7	98	0	MRCK1	138	1	PRCK
19	ī	FRX3020	59	-	GND	99	0	VCLRO	139	-	GND
20	- 1	Voo	60	-	VDD	100	-	Vpo	140	-	VDD
21	0	BINS	61	1/0	BID	101	0	INCO	141	Ι	PRZ
22	0	WINS	62	1/0	BIDDIR	102	0	HCLRO	142	ı	PBSYNC
23	0	BWBLK	63	1	MOD4	103	O	DOCLR	143	0	WBLK
24	0	WHITECHT	64	T.	MOD3	104	0	MWCK	144	1/0	GH
25	1	D0	65	-	MOD2	105	0	WE	145	0	SHW
26	1/0	PB16H	66	1	MOD1	106	0	DOUT0	146	1/0	SD01
27	1/0	PB2H	67	T	JUC	107	0	DOUT1	147	1/0	GB
28	0	COUNTERV	68	1	SGBLK	108	0	DOUT2	148	0	WDIZ
29	1/0	PBV	69	1	REFOE	109	0	DOUT3	149	1/0	FBID
30	- 1	GND	70	-	GND	110	_	GND	150	-	GND
31	0	WRITEV	71	1	READV	111	0	DOUT4	151	1/0	FFB
32	0	WOE	72	1	RZ	112	0	DOUT5	152	1/0	FRB
33	1/0	WVISCID	73		R456FH	113	0	DOUT6	153	0	FF30COFF
34	0	RVISCID	74		R2BH	114	0	DOUT7	154	0	FR30HDL
35	1/0	RVSET	75	1	R2FH	115	-	_	155	1	THRU2
36	1/0	WENP	76	1	HCK	116	0	DOUTS	156	T	THRU1
37	1/0	RENP	77	1	SDATA	117	ō	DOUT9	157	1/0	NOSIG
38		LEVTST	78	1	SLD	118	0	SD02WD0	158	0	PDSCONT
39		CLR	79		SCK	119	Ť	HOE	159	ō	SPDPWM
40	- 1	VDD	80	-	VDD	120	_	VDD	160	-=+	VDD

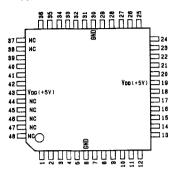




CXK1023P (SONY)



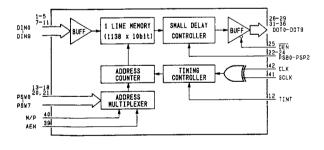
CXK1203Q (SONY)
C-MOS DIGITAL LINE MEMORY
- TOP VIEW -



1 2 3 4 5 7 8	D0 D1 D2		DOT0 DOT1 DOT2	36 35 34 33
-	D3		DOT3	
-5	D4		0014	32
	D5		0015	31
-8	D6		0016	29 28
9	D7		0017	28
10	08		DOT8	25
11	09		0019	20
21 20 18 17 16 15 14	PSW0 PSW1 PSW2 PSW3 PSW4 PSW5 PSW6 PSW7		OEN PSB0 PSB1 PSB2	25 24 23 22
42	SCLK	TINT	Α <u>Υ</u>	
	- 4	1 12 3	9 40	

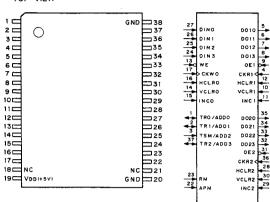
										- (VDD = + 5V
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	1	D0	13	T	PSW7	25	1.	OEN	37	-	N.C
2	1	D1	14		PSW6	26	0	DOT9	38	-	N.C
3	1	D2	15	1	PSW5	27	0	DOT8	39	1	AEN
4	ı	D3	16		PSW4	28	0	DOT7	40	1	N/P
5	ī	D4	17	T	PSW3	29	0	DOT6	41	1	SCLK
6	- 1	GND	18	T	PSW2	30	-	GND	42	1	CLK
7	1	D5	19	-	VDD	31	0	DOT5	43	-	VDD
8	1	D6	20		PSW1	32	0	DOT4	44	-]	N.C
9	T	D7	21		PSW0	33	0	DOT3	45	-	N.C
10	1	D8	22	T	PSB2	34	0	DOT2	46	-	N.C
11	1	D9	23	1	PSB1	35	0	DOT1	47	-	N.C
12	ī	TINT	24	1	PSB0	36	0	DOT0	48	-	N.C

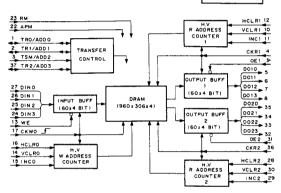




CXK1206AM (SONY) FLAT PACKAGE CXK1206M (SONY) FLAT PACKAGE

C-MOS VIDEO FIELD MEMORY (960-COLUMNx306-ROWx4-BIT) - TOP VIEW -



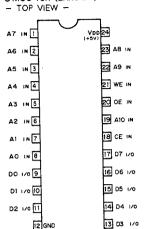


PIN SIGNAL	DESCRIPTION
1 TRO/AD	DO W PORT O TRANSFER SYNC I/O, ADDRESS O INPUT
2 TR1/AD	Dl R PORT 1 TRANSFER SYNC I/O. ADDRESS 1 INPUT
3 TSM/AD	D2 TRANSFER SYNCHRONOUS MODE, ADDRESS 2 INPUT
4 CKR1	R PORT 1 SHIFT SIGNAL INPUT
5 DO10 6 DO11	R PORT 1 DATA 0 OUTPUT
6 DO11	R PORT 1 DATA 1 OUTPUT
7 DO12	R PORT 1 DATA 2 OUTPUT R PORT 1 DATA 3 OUTPUT R PORT 1 OUTPUT ENABLE INPUT
8 DO13	R PORT 1 DATA 3 OUTPUT
9 OE1	R PORT I OUTPUT ENABLE INPUT
	R PORT 1 VERTICAL CLEAR INPUT
	R PORT 1 LINE INCREMENT INPUT
12 HCLK1	R PORT 1 HORIZONTAL CLEAR INPUT
14 VCLRO	W PORT 0 WRITE ENABLE INPUT W PORT 0 VERTICAL CLEAR INPUT W PORT 0 LINE INCREMENT INPUT
15 INCO	W PORT O VERTICAL CLEAR INPUT
16 HCLRO	W PORT 0 HORIZONTAL CLEAR INPUT
	W PORT 0 SHIFT SIGNAL INPUT
18 NC	(no connection)
19 VDD	+5V INPUT
	GND
21 NC	GND (no connection) ADDRESS PRESET MODE INPUT
22 APM	ADDRESS PRESET MODE INPUT
23 RMM	RECURSIVE MODE ENABLE INPUT
	W PORT 0 DATA 3 INPUT
25 DIN2	W PORT 0 DATA 2 INPUT
26 DIN1	W PORT 0 DATA 1 INPUT W PORT 0 DATA 0 INPUT
27 DINO	W PORT 0 DATA 0 INPUT
28 HCLR2	R PORT 2 HORIZONTAL CLEAR INPUT
29 INC2	R PORT 2 LINE INCREMENT INPUT
30 VCLR2	R PORT 2 VERTICAL CLEAR INPUT
31 OE2	R PORT 2 OUTPUT ENABLE INPUT
32 DO23	R PORT 2 DATA 3 OUTPUT
33 DO22	R PORT 2 DATA 2 OUTPUT
	R PORT 2 DATA 1 OUTPUT
35 DO20	R PORT 2 DATA 0 OUTPUT
36 CKR2	R PORT 2 SHIFT SIGNAL INPUT
	D3 R PORT 2 TRANSFER SYNC 1/O, ADDRESS 3 INPUT
38 GND	GND

CON			1		
INPU	ITS	TS	,TR/A		MODE
RM APM TSM		TR 0-2	ADD 0-3		
0	0	0	OUT PUT	~	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
0	0	1	IN- PUT	-	NON RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT
0	1	-	-	IN- PUT	NON RECURSIVE MODE, ADDRESS PRESET MODE
1	0	0	OUT PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE OUTPUT
1	0	1	IN- PUT	-	RECURSIVE MODE, TRANSFER SYNCHRONOUS MODE INPUT

0:LOW LEVEL 1:HIGH LEVEL

CXK5816M-12L (SONY) (ACCESS TIME 120nS) C-MOS 16K (2Kx8-BIT) STATIC RAM



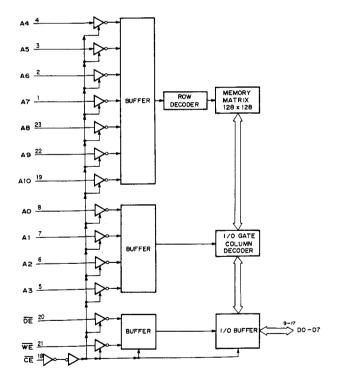
3 A A 23 A	2 3 4 5 6 7	00 9 01 10 02 11 03 13 04 14 05 15 06 16 07 17
1 A 23 A 222 A	7 8	07 17

AO-AIO; ADDRESS INPUTS
CE ; CHIP ENABLE INPUT
OO-D7; DATA INPUTS/OUTPUTS
OE ; OUTPUT ENABLE INPUT
WE ; WRITE ENABLE INPUT

MODE SELECTION

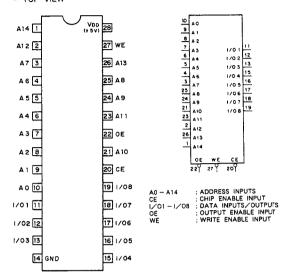
1	CONT	ROL I	VPUTS	MODE				
	CE	DE	WE					
	1	Х	X	NO CHANGE				
ı	0	1	1	DISABLE OUTPUT				
ĺ	0	0	1	READ				
ı	١٨	1	۱۵	WRITE				

O ; LOW LEVEL 1 ; HIGH LEVEL X ; DON'T CARE

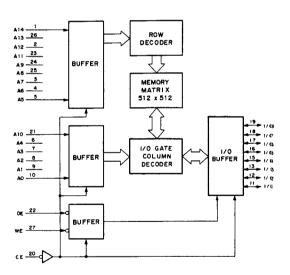


CXK58257M-10L (SONY) FLAT PACKAGE MS62256CLL-10FC (MOSEL) FLAT PACKAGE

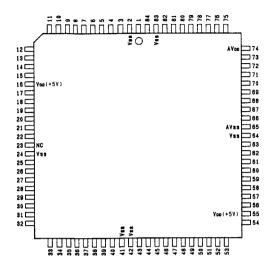
C-MOS 256K (32768x8)-BIT STATIC RAM



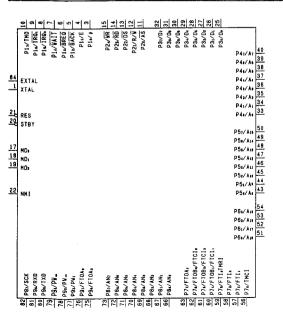
CE	OΕ	WE	MODE	I/O TERMINAL
1	×	×	NOT SELECT	HIGH IMPEDANCE
0	1	1	OUTPUT DISABLE	HIGH IMPEDANCE
0	0	1	READ	OUTPUT DATA
0	×	0	WRITE	INPUT DATA

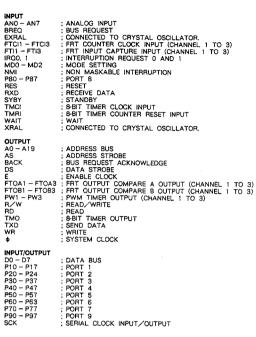


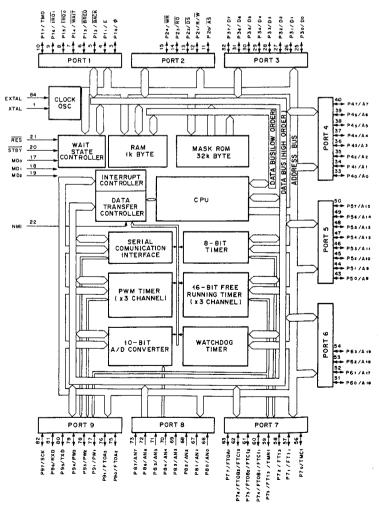
HD6435328RA00F (HITACHI) 16-BIT CPU - TOP VIEW -



								$(V_{DD} = + 5V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1		XTAL	29	1/0	P34/D4	57	1/0	P71/FTI1
2	-	Vss	30	1/0	P35/D5	58	1/0	P72/FTI2
3	1/0	P10/ ф	31	1/0	P36/D6	59	1/0	P73/FTI3/TMRI
4	1/0	P11/E	32	1/0	P37/D7	60	1/0	P74/FTOB1/FTCII
5	1/0	P12/BACK	33	1/0	P40/A0	61	1/0	P75/FT082/FTCI2
6	0	P13/BREQ	34	1/0	P41/A1	62	1/0	P76/FTOB3/FTCI3
7	1/0	P14/WAIT	35	1/0	P42/A2	63	0	P77/FTOA1
8	1/0	P15/IRQ0	36	1/0	P43/A3	64		Vss
9	1/0	P16∕IRQ1	37	1/0	P44/A4	65	-	AVss
10	1/0	P17/TMO	38	1/0	P45/A5	66	1/0	P80/AN0
11	0	P20/AS	39	1/0	P46/A6	67	1/0	P81/AN1
12	1/0	P21/R/W	40	1/0	P47/A7	68	1/0	P82/AN2
13	1/0	P22/DS	41	-	Vss	69	1/0	P83/AN3
14	1/0	P23/RD	42	-	Vss	70	1/0	P84/AN4
15	1/0	P24/WR	43	1/0	P50/A8	71	1/0	P85/AN5
16	-	Vcc	44	1/0	P51/A9	72	1/0	P86/AN6
17	Π,	MD0	45	1/0	P52/A10	73	1/0	P87/AN7
18	_	MD1	46	1/0	P53/A11	74	-	AVcc
19		MD2	47	1/0	P54/A12	75	1/0	P90/FTOA2
20	_	STBY	48	1/0	P55/A13	76	1/0	P91/FTOA3
21		RES	49	1/0	P56/A14	77	1/0	P92/PW1
22	_	NMI	50	1/0	P57/A15	78	1/0	P93/PW2
23		NC	51	1/0	P60/A16	79	1/0	P94/PW3
24	-	Vss	52	1/0	P61/A17	80	1/0	P95/TXD
25	1/0	P30/D0	53	1/0	P62/A18	81	1/0	P96/RXD
26	1/0	P31/D1	54	1/0	P63/A14	82	1/0	P97/SCK
27	0	P32/D2	55	_	Vcc	83	_	Vss
28	1/0	P33/D3	56	1/0	P70/TMCI	84	1	EXTAL







L78M09T (SANYO) + 9V 0.5A POSITIVE VOLTAGE REGULATOR





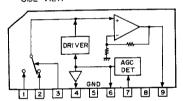
L79M09T (SANYO) - 9 V NEGATIVE VOLTAGE REGULATOR (500 mA)





LA7205 (SANYO)

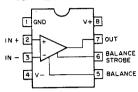
AGC AMP, INPUT SELECT, AGC DET, COMPARATOR — SIDE VIEW —



LM2903DQ (RAYTHEON)
LM2903M (RAYTHEON) FLAT PACKAGE
LM2903P (TI)
LM2903PS (TI) FLAT PACKAGE
NJM2903M (JRC)
NJM2903M (JRC) FLAT PACKAGE
UPC393G2 (NEC) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
— TOP VIEW —

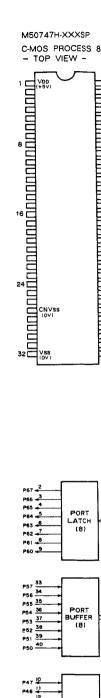


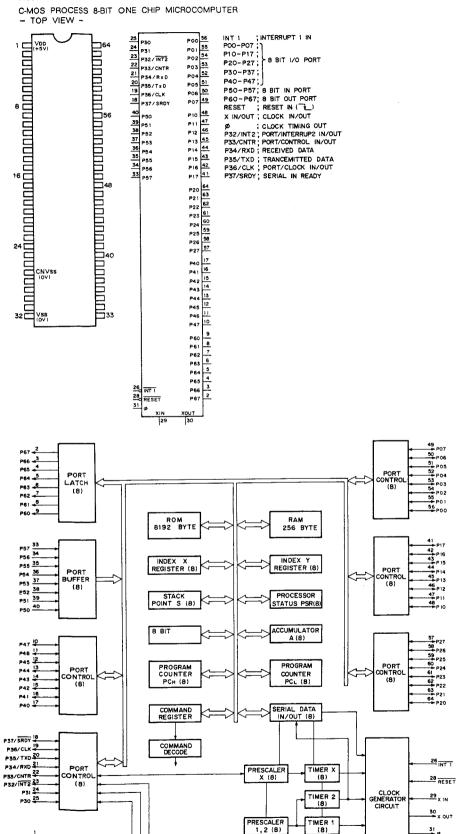
LM311PS (TI) FLAT PACKAGE VOLTAGE COMPARATOR WITH STROBE - TOP VIEW -



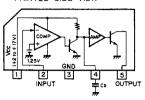
LM358P (TI)
UPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS

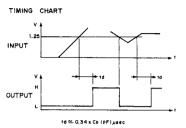




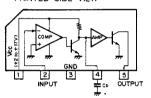


M51957BL (MITSUBISHI) VOLTAGE DETECT DELAY - PRINTED SIDE VIEW -





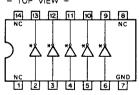
M51958BL (MITSUBISHI) VOLTAGE DETECT DELAY - PRINTED SIDE VIEW -



TIMING CHART

td ≃ 0,34 x Cb (PF) µsed

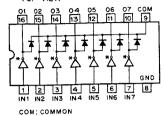
M54516P (MITSUBISHI) INVERTER WITH OPEN-COLLECTOR (DARLINGTON-CONNECTED TRANSISTOR ARRAY) - TOP VIEW -



31 ≠ ø

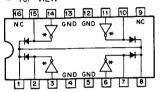
M54523P (MITSUBISHI)

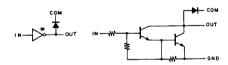
BIPOLAR TRANSISTOR ARRAY WITH OPEN COLLECTOR - TOP VIEW -



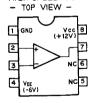
M54532P (MITSUBISHI)

DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE TOP VIEW



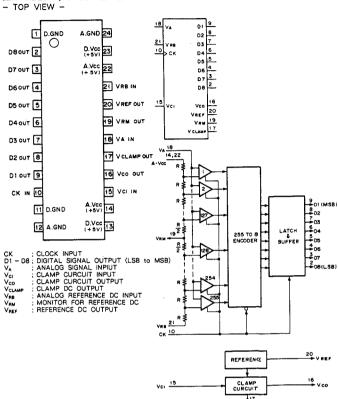


MB4002PF (FUJITSU) FLAT PACKAGE HIGH SPEED VOLTAGE COMPARATOR



MB40568 (FUJITSU) FLAT PACKAGE MB40568PF (FUJITSU) FLAT PACKAGE

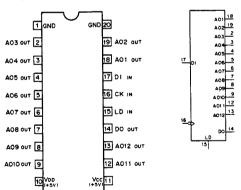
8BIT VIDEO A/D CONVERTER



MB88341PFV (FUJITSU) FLAT PACKAGE

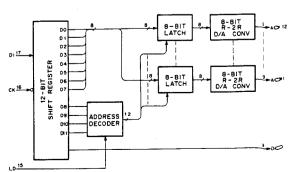
C-MOS 8-BIT D/A CONVERTER

TOP VIEW -

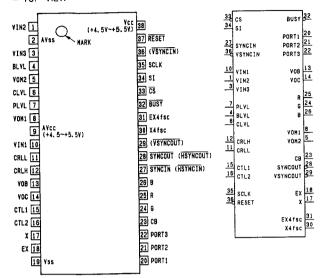


: 8-BIT D/A OUTPUTS : CLOCK INPUT : SERIAL DATA INPUT

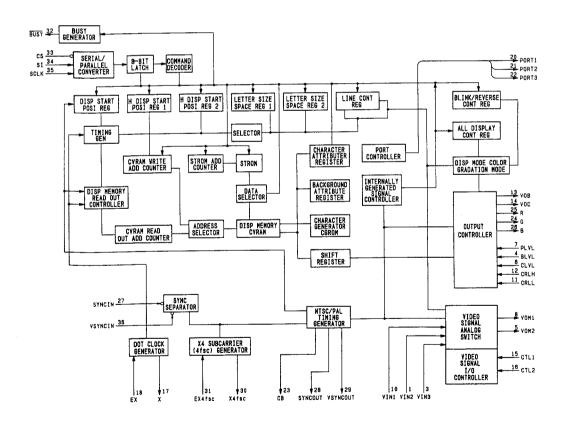
DATA OUTPUT DATA LOAD CONTROL INPUT (H; LOAD)



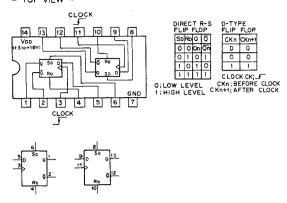
C-MOS TV DISPLAY CONTROLLER - TOP VIEW -



INPUT
BLVL
CLVL
CRLH
CRLL
CS
CS
CTL1, CTL2
EX
EX4fsc : BACK GROUND LEVEL IN
: CHARACTER LEVEL IN
: CHROMA HIGH LEVEL IN
CHROMA LOW LEVEL IN
CHROMA LOW LEVEL IN
CHIP SELECTOR
: CONTROL 1, 2 (VOM 1/2/3/4 SELECTION)
DISPLAY DOT CLOCK TERMINAL
: COLOR BURST CLOCK TERMINAL
: VIDEO LEVEL IN
: RESET
: SIRIAL DATA IN
: H SYNC IN
: VIDEO IN 1, 2, 3
: V SYNC IN PLVL RESET SI SYNCIN VIN1 - VIN3 VSYNCIN OUTPUT : BLUE OUT
: CHARACTER VIDEO OUT
: BUSY OUT
: COLOR BURST OUT
: GREEN OUT
: PORTI - PORT3 OUT
: RED OUT
: H SYNC OUT
: BACK GROUND VIDEO OUT
: VIDEO OUT1, 2
! V SYNC OUT
: DISPLAY DOT CLOCK TERMINAL
: COLOR BURST CLOCK TERMINAL B VOC BUSY CB G PORT1 - PORT3 R SYNCOUT VOB VOM1, VOM2 VSYNCOUT X X4fsc

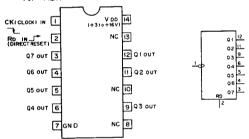


MC14013BCP (MOTOROLA) C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET - TOP VIEW -

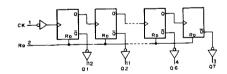


MC14024BCP (MOTOROLA)

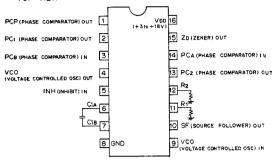
C-MOS ASYNCHRONOUS 7-BIT BINARY COUNTER TOP VIEW -

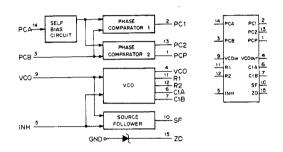


COLUET	INPUTS		OUTPUTS							
COUNT	СК	Ro	Q7	Ğ	8	Š	Q3	Q 2	õ	
0	X	1	0	0	0	0	0	0	0	
1	1	0	0	0	0	0	0	0	1	
2	1	0	0	0	0	0	0	1	0	
3	T	0	0	0	0	0	0	1	1	
4	T	0	0	0	0	0	1	0	0	ĺ
	:	:			į					
1	!	:		!	:	:	:	L	:_	
125	T	0	1	1	1	1	1	0	1	0 ; LOW LEVEL
126	12	0	1	1	1	1	1	1	0	1; HIGH-LEVEL
127	1	0	1	1	1	1	1	1	1	X ; DON'T CARE
_	0	0		NO		на	NO	F		
	1	0	1		_			-		



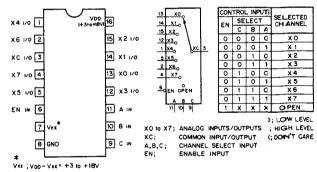
MC14046BF (MOTOROLA) FLAT PACKAGE C-MOS PHASE LOCKED LOOP - TOP VIEW -





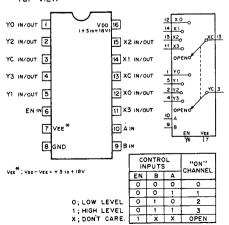
MC14051BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



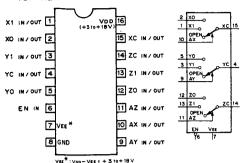
MC14052BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL 4-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



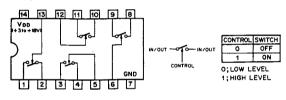
MC14053BCP (MOTOROLA)
MC14053BF (MOTOROLA) FLAT PACKAGE

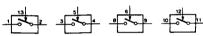
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



	CON		
	EN	A (X,Y,Z,)	CHA
O; LOW LEVEL	Ö	0	
1 . HIGH LEVEL	0	1	
X : DON'T CARE.	1	×	0

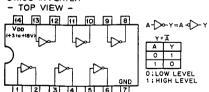
MC14066BF (MOTOROLA) FLAT PACKAGE C-MOS BILATERAL ANALOG SWITCH - TOP VIEW -



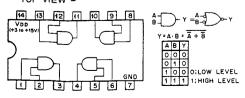


MC14069UBCP (MOTOROLA) MC14069UBF (MOTOROLA)

C-MOS INVERTER

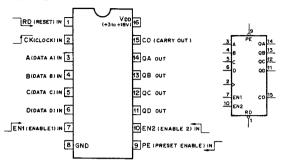


MC14081BCP (MOTOROLA) C-MOS 2-INPUT AND GATE - TOP VIEW -

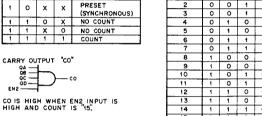


MC14161BCP (MOTOROLA)

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER WITH ASYNCHRONOUS RESET - TOP VIEW -



MODE SELECTION MODE RD PE EN1 EN2 RESET (ASYNCHRONOUS) x PRESET (SYNCHRONOUS) NO COUNT NO COUNT 0 x x 1 0 X 1 X 0



CO IS HIGH WHEN ENZ INPUT IS HIGH AND COUNT IS "15"

ENZ

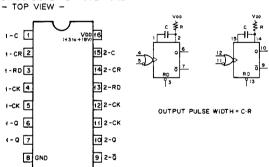
O;LOW LEVEL 1;HIGH LEVEL X;DON'T CARE

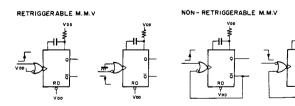
COUNT SEQUENCE

COUNT

MC14538BCP (MOTOROLA) MC14538BF (MOTOROLA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR





PCO

PC1 47

PC2 2 PC3 2 PC4 3 PC5 4 PC6 5

PD1 36 PD1 35 PD2 34 PD3 32

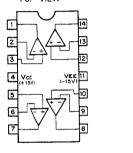
PD3 34 PD4 32 PD5 31 PD6 30 PD7 29

oscz

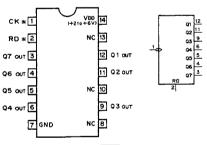
MC34182M (MOTOROLA) FLAT PACKAGE TL072CP (TI) TL082CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) — TOP VIEW —

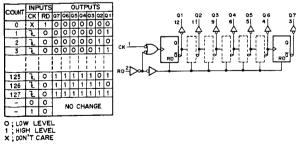


MC34184M (MOTOROLA) FLAT PACKAGE JFET INPUT OPERATIONAL AMPLIFIER - TOP VIEW -

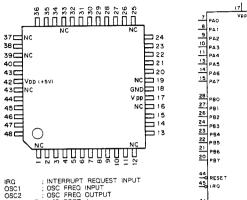


MC74HC4024N (MOTOROLA)
C-MOS 7-BIT BINARY COUNTERS
- TOP VIEW --



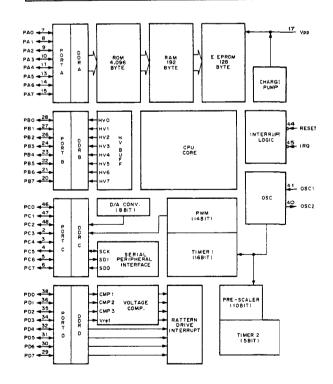


MC68HC05N4 (MOTOROLA)
C-MOS 8-BIT MICROPROCESSOR
- TOP VIEW -



OSC2	: OSC FREQ OUTPUT
	: I/O PORT A
PB0 - P87	: I/O PORT B
PC0 - PC7	1/O PORT C
PD0 - PD7	I/O PORT D
RESET	RESET PULSE INPUT
THEOL !	

PIN NQ.	1/0	SYMBOL	PIN IV	0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL
1	t - 1	NC	13 1/	701	PA5	25	-	NC	37	-	NC
2	1/0	PC3	14 1/	10	PA6	26	1/0	PB2	38	1/0	PD0
3	1/0	PC4	15 1/	70	PA7	27	1/0	PB1	39	_	NC
4	1/0	PC5	16	- 1	NC	28	1/0:	PB0	40	0	OSC2
5	1/0	PC6	17	1	VPP	29	1/0:	PD7	41	1	osc1
6	1/0	PC7	18	- 1	GND	30	1/0:	PD6	42		VDD (+5V)
7	1/0	PAO	19	-	NC	31	1/0	PD5	43		NC
8	1/0	PA1	20 11/	10	PB7	32	1/0	PD4	44	-	RESET
9	1/0	PA2	21 1/	10	PB6	33	- :	NC	45	1	IRO
10	1/0	PA3	22 1/	0	PB5	34	1/0	PD3	46	1/0	PC0
11	1/0	PA4	23 1/	0	PB4	35	1/0	PD2	47	1/0	PC1
12	1-	NC	24 1	0	PB3	36	1/0	PD1	48	1/0	PC2



NJM2068DD (JRC) LOW NOISE OPERATIONAL AMPLIFIER - TOP VIEW -



NJM360M (JRC) FLAT PACKAGE HIGH SPEED VOLTAGE COMPARATOR (TTL OUTPUT) - TOP VIEW -



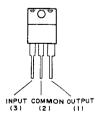
NJM4558D-D (JRC)
NJM4558M (JRC) FLAT PACKAGE
NJM4560M (JRC) FLAT PACKAGE
NJM4560M (JRC) FLAT PACKAGE
NJM4565M (JRC) FLAT PACKAGE
NJM4565M (JRC) FLAT PACKAGE
NJM5532D-D (JRC)
RC4558DD (RAYTHEON)
RC4558M (RAYTHEON) FLAT PACKAGE
RC4560D (RAYTHEON) FLAT PACKAGE
RC4560M (RAYTHEON) FLAT PACKAGE
RC5532DD (RAYTHEON)
UPC4558C (NEC)

DUAL OPERATIONAL AMPLIFIER - TOP VIEW -



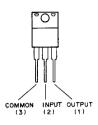
NJM7805FA (JRC) + 5V (1 A) NJM7809FA (JRC) + 9V (1 A) NJM7812FA (JRC) + 12V (1 A) RC7805FA (RAYTHEON) + 5V (1 A) RC7809FA (RAYTHEON) + 9V (1 A)

POSITIVE VOLTAGE REGULATOR + FRONT VIEW -



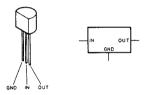


NJM7905FA (JRC) - 5V (1 A) NJM7909FA (JRC) - 9V (1 A) RC7905FA (RAYTHEON) - 5V (1 A) RC7909FA (RAYTHEON) - 9V (1 A) NEGATIVE VOLTAGE REGULATOR - FRONT VIEW -

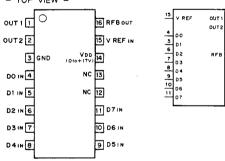




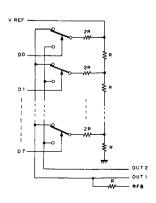
NJM79L05A (JRC) - 5V (100 mA) NJM79L09A (JRC) - 9V (100 mA) RC79L05A (RAYTHEON) - 5V (100 mA) RC79L09A (RAYTHEON) - 9V (100 mA) NEGATIVE VOLTAGE REGULATOR



NJU8001M (JRC) FLAT PACKAGE C-MOS 8-BIT MULTIPLING D/A CONVERTER - TOP VIEW -



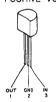
D0 - D7 : DATA INPUTS RFB : FEED BACK INPUT



RC4556MA (RAYTHEON) FLAT PACKAGE OPERATIONAL AMPLIFIER (WIDE BAND, DECOMPENSATED) — TOP VIEW —

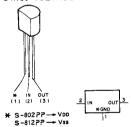


RC78L05A (RAYTHEON) + 5V RC78L09A (RAYTHEON) + 9V POSITIVE VOLTAGE REGULATOR (100mA)

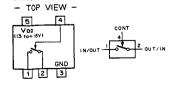




S-81230AG (SEIKO I AND E) +3V C-MOS VOLTAGE REGULATOR



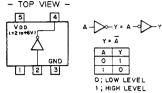
SC14866F (MOTOROLA) CHIP PACKAGE SC14866FEL (MOTOROLA) CHIP PACKAGE C-MOS BILATERAL ANALOG SWITCH





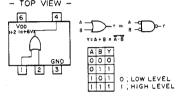
SC7S04F (MOTOROLA) FLAT PACKAGE TC7SU04F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER - TOP VIEW -

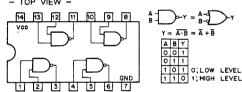


SC7S32F (MOTOROLA) CHIP PACKAGE TC7S32F (TOSHIBA) CHIP PACKAGE

C-MOS 2-INPUT OR GATE - TOP VIEW -

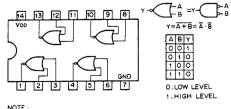


SN74HC00ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NAND GATE - TOP VIEW -

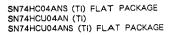


NOTE :	
TYPE	VDD
TC74AC00P TC74AC00F	+2 to +5.5V
MC74HCT00N 74ACT00PC	+5V
OTHER TYPES	+2 to +6V

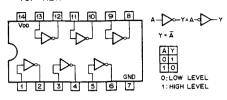
SN74HC02ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NOR GATE - TOP VIEW -



NOTE:	
TYPE	Voo
TC74AC02F	+2 to +5.5V
OTHER TYPES	+2 to +6V

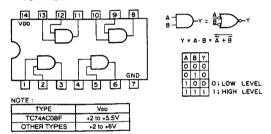


C-MOS HEX INVERTERS

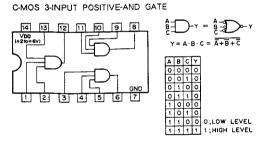


NOTE :	
TYPE	Voo
74ACT04 TYPES 74HCT04 TYPES	+5∨
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SN74HC08ANS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT AND GATE - TOP VIEW -

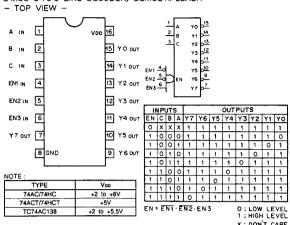


SN74HC11ANS (TI) FLAT PACKAGE SN74HC11NS (TI) FLAT PACKAGE



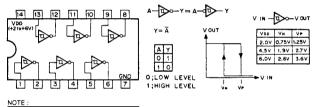
SN74HC138ANS (TI) FLAT PACKAGE

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER



SN74HC14ANS (TI) FLAT PACKAGE

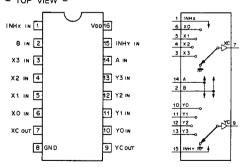
C-MOS SCHMITT TRIGGER INVERTER - TOP VIEW -



NOTE :						
TYPE	Voo					
74AC/74HC	+2 to +6V					
TC74AC14	+2 to +5.5V					

SN74HC153ANS (TI) FLAT PACKAGE

C-MOS DUAL 4-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



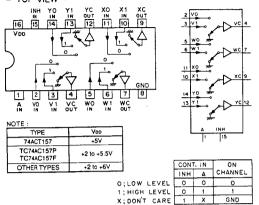
TYPE	Voo		
EXCEPT FOL. TYPE	+2 to +6V		
74ACT153PC	+5∨		
74ACT153SJ			
TC74AC153P	+2 to +5.5V		

CON	TROL	ON	
INH	8	Α	CHANNEL
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	Х	GND

O; LOW LEVEL 1: HIGH LEVEL X: DON'T CARE

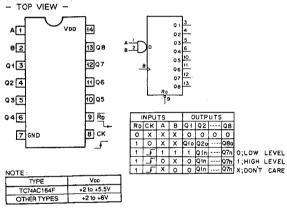
SN74HC157ANS (TI) FLAT PACKAGE

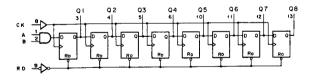
C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



SN74HC164NS (TI) FLAT PACKAGE

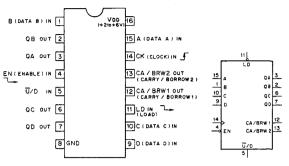
C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER



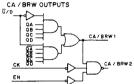


SN74HC191NS (TI) FLAT PACKAGE

C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER — TOP VIEW —



MODE	SELEC	TION		COUNT	SEQUE	ENCE		
CON	TROL	INPUTS	MODE	COUNT		OUT	PUTS	
LĐ	EN	Ū/D	T 1800E	COUNT	QD	QC	QB	C
6	x	×	PRESET	0	0	0	0	(
ľ	^ :	^	(ASYNCHRONOUS)	1	0	0	0	
1	1	X	NO COUNT	2	0	0	1	-
1	0	0	UP COUNT	3	0	0	1	
1	0	. 1	DOWN COUNT	4	0	. 1	0	-
0.10	V LEV	E (<u> </u>	5	0	1	0	Γ
	H LEV			6	0	1	1	
	N'T CA			7	0	1	1	Г
,				8	1	0	0	
CA / BF	w out	PUTS		9	1	0	0	Г
۷۰ ۲				10	1	0	1	П



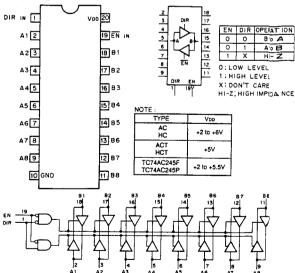
	QD	QC	QB	QA	
0	0	0	0	0	111
1	0	0	0	1	
2	0	0	1	0	
3	0	0	1	1_	
4	0	. 1	0	0	
5	0	1	0	1	114
6	0	1	1	0	23
7	0	1.	1	1	38
8	-	0	0	0	-UP COUNT- DOWN COUNT
9	-	0	0	1	5 €
10	-	0	1	0	1
11	1	0	1	1	
12	1	1	0	0	
13	1	1	0	1	
14	-	1 :	1	0	
15	1	1	1	1	

CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "O" AT DOWN COUNT.

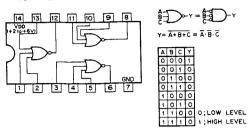
CA/BRW2 OUTPUT IS LOW WHEN BOTH THE CLOCK AND EN INPUTS ARE LOW AND CA/BRW1 OUTPUT IS HIGH.

SN74HC245ANS (TI) FLAT PACKAGE

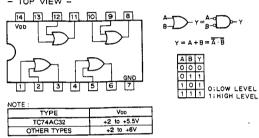
C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS — TOP VIEW —



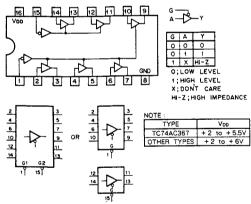
SN74HC27NS (TI) FLAT PACKAGE C-MOS 3-LINE POSITIVE-NOR GATE - TOP VIEW -



SN74HC32ANS (TI) FLAT PACKAGE C-MOS 2-INPUT OR GATE - TOP VIEW -

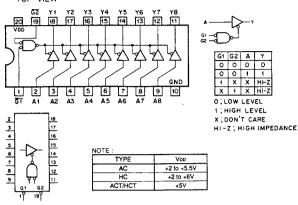


SN74HC367ANS (TI) FLAT PACKAGE C-MOS BUS DRIVER WITH 3-STATE OUTPUTS - TOP VIEW -



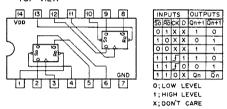
SN74HC541ANS (TI) FLAT PACKAGE

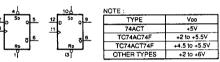
C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS - TOP VIEW -



SN74HC74ANS (TI) FLAT PACKAGE

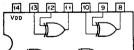
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET - TOP VIEW -

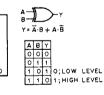




SN74HC86ANS (TI) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE



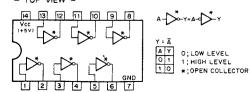




TYPE	Voo
TC74AC86F	+2 to +5.5V
OTHER TYPES	+2 to +6V

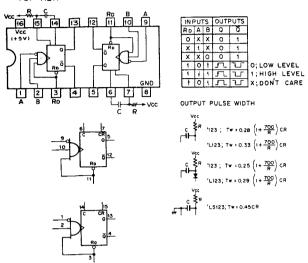
SN74LS06NS (TI) FLAT PACKAGE

TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR - TOP VIEW -



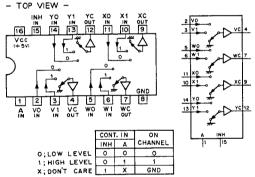
SN74LS123NS (TI) FLAT PACKAGE

TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET - TOP VIEW -



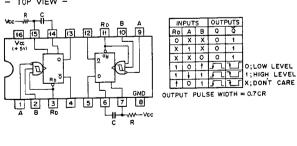
SN74LS157NS (TI) FLAT PACKAGE

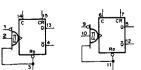
TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER



SN74LS221NS (TI) FLAT PACKAGE

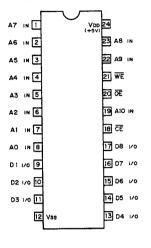
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT TOP VIEW -





SRM2016M10 (SEIKO EPSON) FLAT PACKAGE

C-MOS 16384-BIT (2048x8) STATIC RAM TOP VIEW -



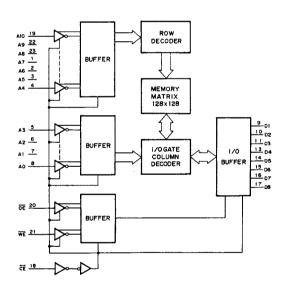


AO - AIO ; ADDRESS INPUTS DI-D8 ; DATA INPUTS/OUTPUTS OUTPUT ENABLE

11	₩.	TS	E WET ON			
Œ	E OE WE		FUNCTION			
1	x	×	NO SELECTION(HI-Z)			
0	1	1	OUTPUT DISABLE(HI-Z)			
0	0	1	READ			
0	×	0	WRITE			

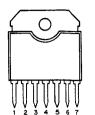
LOW LEVEL

1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



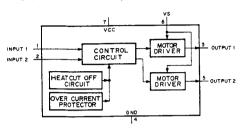
TA7267P (TOSHIBA)

DC MOTOR DRIVER - PRINTED SIDE VIEW -



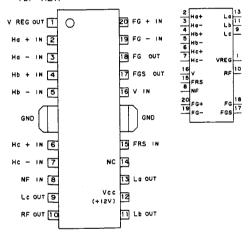
INP	JTS	OUTI	٠us	MODE
1	2	1	2	11002
1	1	0 0		BRAKE
0	1	0	1	ROTATION/ REV. ROTATION
1	0	1	0	REV. ROTATION / ROTATION
0	0	HI-Z		STOP

; LOW LEVEL ; HIGH LEVEL -Z; HIGH IMPEDANCE 0



TA8424F (TOSHIBA)

MOTOR DRIVER FOR DIRECT CURRENT COMPACT MOTOR - TOP VIEW -



INPUT

FG INPUT AMP

IMOTOR ROTATIONAL DIRECTION CONTROL

/-HOUE ELEMENT AMP

FEEDBACK OUTPUT CURRENT

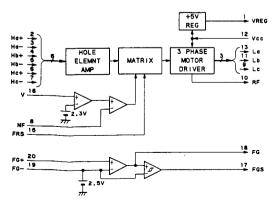
FCONTROL VOLTAGE FG +/-

Ha. Hb. Hc +

OUTPUT

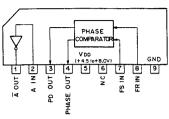
V REG

FG FGS La.Lb.Lc RF #FG GAIN AMP
#FG HYSTERESIS AMP
#3 PHASE MOTOR DRIVE
#OUTPUT CURRENT DETECTOR
#VOLTAGE REGULATOR

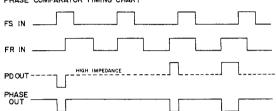


TC5081AP (TOSHIBA)

C-MOS PHASE COMPARATOR - SIDE VIEW -

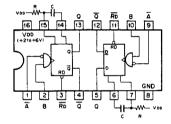


PHASE COMPARATOR TIMING CHART

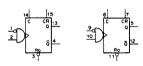


TC74HC123AF (TOSHIBA) FLAT PACKAGE

C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR - TOP VIEW -

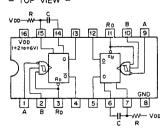


11	INPUT			PUT	
RD	Α	8	Q	Q	
0	×	х	0	1	
1	1	х	0	1	
1	X	0	0	1	
1	0	4	5	Ę	0 ; LOW LEVE
T	J.	1	5	J.J	1; HIGH LEVE
5	0	+	₽.	J.	X; DON'T CARE



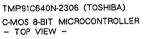
TC74HC221AF (TOSHIBA) FLAT PACKAGE

C-MOS MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT – TOP VIEW –



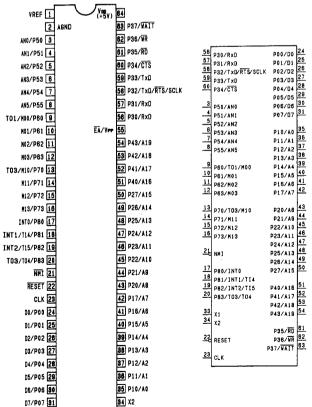
	INPUTS			OUT	PUTS	l	
LF	lo l	Α	Θ	Q	Q		
	0	Х	×	0	1		
- [7	×	1	х	0	1		
	x	Х	0	0	1		
- [1	0	†	7	Ę	O;LOW I	EVEL
	1	÷	1	5	U	1 HIGH	
	t [0	1	J.	Ę	X;DON'T	CARE
OUT	PUT	ГР	ULS	E WI	DTH=	0.7CR	

TLC549IPS (TI) FLAT PACKAGE C-MOS 8 BIT A/D CONVERTER TOP VIEW -1 REF(+) VD0 B 3 REF(-) REF(+)IN 1 7 CLOCKINPUT/OUTPUT ANALOGIN 2 6 DATA OUT REF(-) N 3 -5 7 cs 5 CSIN 4 GND 8BIT A/D CONVERTER REF(-) 3 OUTPUT SWITCHED (81 CAPACITY ARRAY DATA REGISTER DATA 0-1 SAMPLE AND HOLD DRIVER SYSTEM CONTROL CIRCUIT AND OUTPUT



32 GND/Vss

33 XI



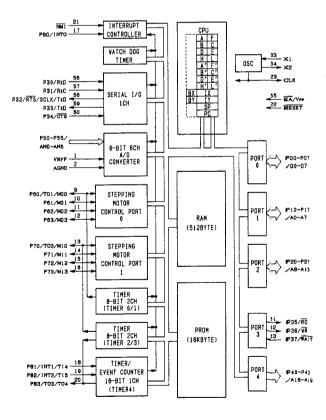
INPUT INPUT ANO - AN5 CTS EA INTO - INT2 NMI P30. 31, 34, 37 P50 - P55 P80. 81, 82 RESET RSCD T14, 5 WAIT : ANALOG INPUT
CLEAR TO SEND THE SERIAL DATA
EXTERNAL ACCESS
INTERRUPT REQUEST PIN 0 - 2
NON MASKABLE INTERRUPT REQUEST PIN
PORT 30, 31, 34, 37
PORT 5
PORT 5
PORT 5
PORT 80, 81, 82
RESET
SERIAL RECEIVE DATA
TIMER INPUT 4, 5
WAIT : ADDRESS BUS
: ADDRESS BUS
: ADDRESS BUS
: ADDRESS BUS
: CLOCK OUTPUT
: STEPPING MOTOR CONTROL PORT 0
: STEPPING MOTOR CONTROL PORT 1
: PORT 32, 33, 35, 36
: PORT 83
: PORT 83
: REQUEST TO SEND THE SERIAL DATA
: SERIAL CLOCK OUTPUT
: TIMER OUTPUT 1, 3 - 5
: SERIAL SEND DATA
WRITE OUTPUT OUTPUT A0 - A7 A16 - A19 A8 - A15 CLK M00 - M03 M10 - M13 P32, 33, 35, 36 P40 - P43 P83 RD RTS SCLK T01, 3 - 5 TXD WR INPUT/OUTPUT DO - D7 P00 - P07 P10 - P17 P20 - P27 P60 - P63 P70 - P73 X1, 2 : DATA BUS : PORT 0 : PORT 1 : PORT 1 : PORT 2 : PORT 6 : PORT 6 : PORT 7 : CRYSTAL OSCILLATION CONNECTION PIN

PROM MODE

INPUT
A14, 15; FIXED TO LOW LEVEL
A0 - A7, A8 - A13; PROGRAM MEMORY ADDRESS INPUT

INPUT/OUTPUT

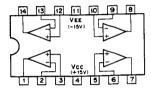
: PROGRAM MEMORY DATA INPUT/OUTPUT



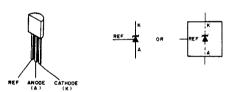
TL072ACP (TI)
OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
- TOP VIEW -



TLOBACNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



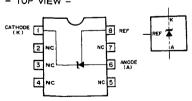
TL431CLP (TI) ADJUSTABLE PRECISION SHUNT REGULATOR



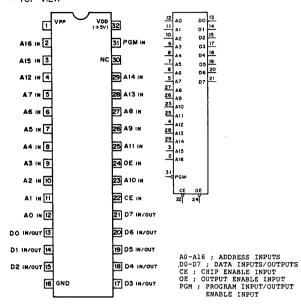
TL431CPS (TI) FLAT PACKAGE

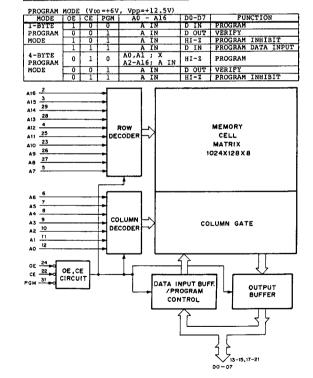
ADJUSTABLE PRECISION SHUNT REGULATOR

- TOP VIEW -

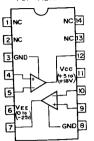


TMS27C010A-15JL (TI)
C-MOS 1M (131072x8)-BIT EPROM
- TOP VIEW -



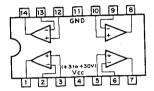


UPC319G2 (NEC) FLAT PACKAGE DUAL VOLTAGE COMPARATOR - TOP VIEW -



UPC324G2 (NEC) FLAT PACKAGE

QUAD. OP AMPLIFIER - TOP VIEW -



UPC4557C (NEC) UPC4572C (NEC)

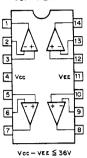
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE) - TOP VIEW -



UPC4570G2 (NEC) FLAT PACKAGE OPERATIONAL AMPLIFIER - TOP VIEW -

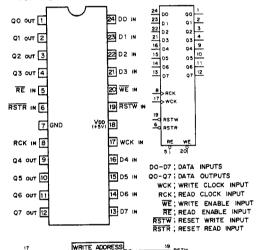


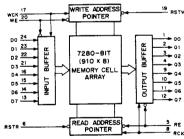
UPC4574G2 (NEC) QUAD OPERATIONAL AMPLIFIER



UPD42101C-3 (NEC)

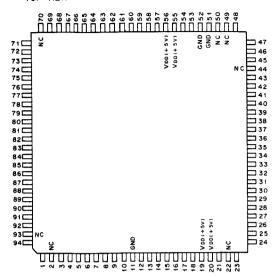
C-MOS 7K (910x8)-BIT FIFO MEMORY - TOP VIEW -



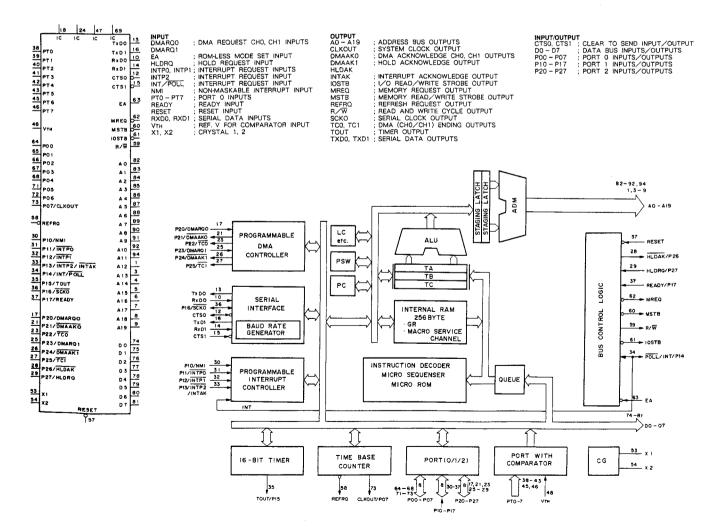


UPD70320GJ-8-5BG (NEC)

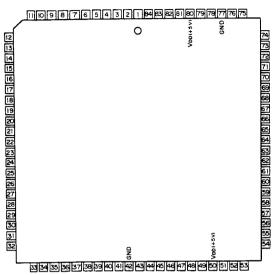
C-MOS SINGLE CHIP 16/8-BIT MICROCOMPUTER - TOP VIEW -



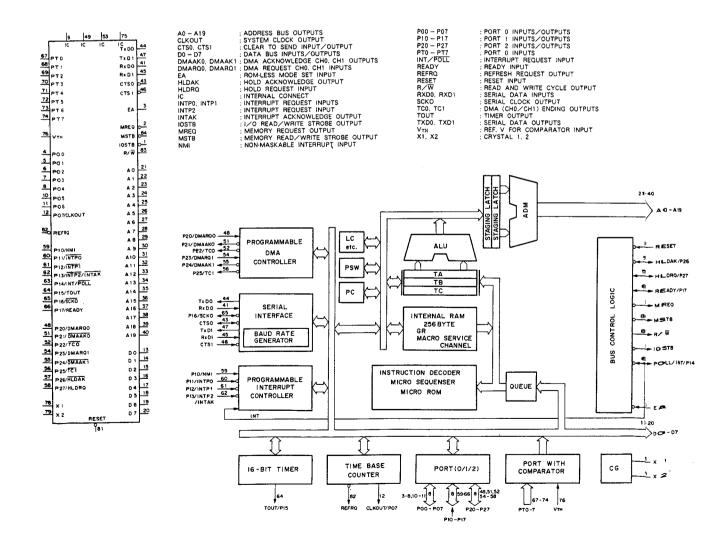
PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL
1	0	A12	33	1/0	P13/INTP2/INTAK	65	1/0	P01
2	-	NC	34	1/0	P14/INT/POLL	66	1/0	P02
3	0	A13	35	1/0	P15/TOUT	67	1/0	P03
4	0	A14	36	1/0	P16/SCK0	68	1/0	P04
5	0	A15	37	1/0	P17/READY	69	-	INT.CONNECT
6	0	A16	38	- 1	PT0	70	-	NC
7	0	A17	39	1	PT1	71	1/0	P05
8	0	A18	40	1	PT2	72	1/0	P06
9	0	A19	41	ı	PT3	73	1/0	P07/CLKOUT
10		RxD0	42	1	PT4	74	1/0	D0
11	-	GND	43	1	PT5	75	1/0	D1
12	1/0	CTS0	44	=	NC	76	1/0	D2
13	0	TxD0	45	1	PT6	77	1/0	D3
14	ij	RxD1	46	1	PT7 ·	78	1/0	D4
15	1	CTS1	47	-	INT.CONNECT	79	1/0	D5
16	0	TxD1	48	-	VTH	80	1/0	D6
17	1/0	P20/DMARQ0	49	-	NC	81	1/0	D7
18	-	INT.CONNECT	50	-	NC	82	0	A0
19	-	VDD	51	_	GND	83	0	A1
20	-	VDD	52	-	GND	84	0	A2
21	1/0	P21/DMAAK0	53	_	X1	85	0	A3
22	-	NC	54	_	X2	86	0	A4
23	1/0	P22/TC0	55	-	VDO	87	0	A5
24	-	INT.CONNECT	56	-	VDD	88	0	A6
25	1/0	P23/DMARQ1	57		RESET	89	0	Α7
26	1/0	P24/DMAAK1	58	0	REFRQ	90	0	A8
27	1/0	P25/TC1	59	0	R/W	91	0	A9
28	1/0	P26/HLDAK	60	0	MSTB	92	0	A10
29	1/0	P27/HLDRQ	61	0	IOSTB	93	-	NC
30	ı	P10/NMI	62	0	MREQ	94	0	A11
31		P11/INTP0	63	1	EA			
32	1	P12/INTP1	64	1/0	P00			



UPD70320L-8 (NEC)
C-MOS 16-BIT MICROPROCESSOR
- TOP VIEW -

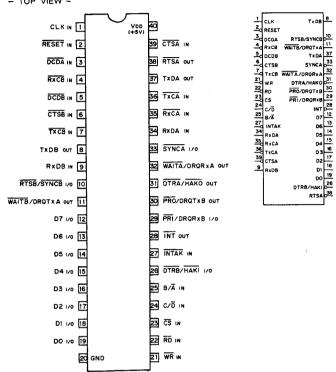


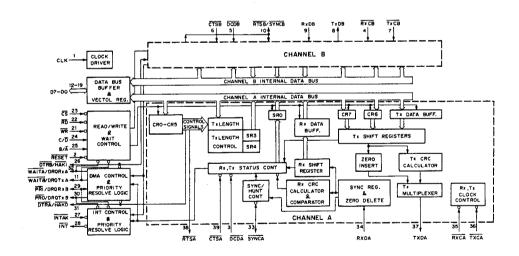
PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL	PIN No.	1/0	SYMBOL
1	0	IOSTB	29	0	A8	57	1/0	P26/HLDAK
2	0	MREQ	30	0	A9	58	1/0	P27/HLDRQ
3	ı	EA	31	0	A10	59	1/0	
4	1/0	P00	32	0	A11	60	1/0	P11/NTP0
5	1/0	P01	33	0	A12	61	1/0	
6	1/0	P02	34	0	A13	62	1/0	P13/INTP2/INTAK
7	1/0	P03	35	0	A14	63	1/0	
8	1/0	P04	36	0	A15	64	1/0	
9	-	IC	37	0	A16	65	1/0	P16/SCKO
10	1/0	P05	38	0	A17	66	1/0	P17/READY
11	1/0	P06	39	0	A18	67	1	PT0
12	·1/0	P07/CLKOUT	40	0	A19	68	Ī	PT1
13	1/0	D0	41		RXD0	69	1	PT2
14	1/0	D1	42	-	GND	70	1	PT3
15	1/0	D2	43	1/0	CTS0	71	1	PT4
16	1/0	D3	44	0	TXD0	72	1	PT5
17	1/0	D4	45	[]	RXD1	73	1	PT6
18	1/0	D5	46	1	CTS1	74	1	P17
19	1/0	D6	47	0	TXD1	75	_	I IC
20	1/0	D7	48	1/0	P20/DMARQ0	76	1	V _{TH}
21	0	A0	49	l – i	IC	77	_	GND
22	0	A1	50		V _{DD} (+ 5V)	78	<u> -</u>	XI
23	0	A2	51	1/0	P21/DMAAK0	79		X2
24	0	A3	52	1/0	P22/TC0	80	1	V _{DD} (~ 5V)
25	0	A4	53	—	IC .	81	- 1	RESET
26	0	A5	54	1/0	P23/DMARQ1	82	0	REFRO
27	0	A6	55	1/0	P24/DMAAK1	83	0	R/W
28	0	A7	56	1/0	P25/TC1	84	0	MSTB



UPD7201AC (NEC)

N-MOS MULTI-PROTOCOL SERIAL CONTROLLER - TOP VIEW -





CLK; SYSTEM CLOCK			
D7-D0; DATA BUS	B/A	C/D	١
CS; CHIP SELECT	0		Г
WR; WRITE	1	0	
RD; READ	0		Γ
C/D; CONTROL/DATA		0	l
B/A; CHANNEL B/CHANNEL A	0		Г
INT; INTERRUPT REQUEST	\vdash	1	
INTAK; INTERRUPT ACKNOWLEDGE	0		r
PRI/DRORXB; PRIORITY INPUT/DMA REQUEST RXB	1	1	
PRO/DRQTxB; PRIORITY OUTPUT/DMA REQUEST TxB			_
/AITA/DRQRxA; WAIT A/DMA REQUEST RxA			
AITB/DRQTXA; WAIT B/DMA REQUEST TXA			
DTRB/HAKI ; DATA TERMINAL READY/HOLD ACKNOWLED	GE IN	IPUT	
DTRA/HAKO; DATA TERMINAL READY/HOLD ACKNOWLED	GE OL	JTPU	T
RxDA,RXDB; RECEIVE DATA A/B			
TxDA,TxDB;TRANSMIT DATA A/B			
RXCA,RXCB; RECEIVE CLOCK A/B			
TxCA,TXCB;TRANSMIT CLOCK A/B			
SYNCA; SYNCHRONIZATION A			
RTSB/SYNCB; REQUEST TO SEND B/SYNCHRONIZATION B			

CHANNEL SELECTION							
B/A	C/D	WR	RD	cs	FANCTION		
0	0	0	1	0	CHANNEL B WRITE (TXD)		
0	0	-	0	0	CHANNEL A READ(RXD)		
0	1	0	1	0	CHANNEL A WRITE(COMMAND/PARAMETER REGISTER)		
0	1	1	0	0	CHANNEL A READ(STATUS/VECTER-REGISTER)		

CTSA,CTSB;CLEAR TO SEND A/B DCDA,DCDB;DATA CARRIER DETECT A/B RTSA;REQUEST TO SEND A

SECTION 18 REPLACEABLE PART AND OPTIONAL FIXTURE

18-1. NOTES ON REPAIR PARTS

(1) Safety Related Components Warning

Components marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear in this manual or in service bulletin and service manual supplements published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present"

(3) Changes of Parts

Regarding engineering parts changes, refer to "Section 19. CHANGED PART".

(4) Stock of Parts

Parts marked with "o" SP(Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(5) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

 $\begin{array}{lll} {\sf Capacitors} & : & \mu {\sf F} \\ {\sf Inductors} & : & \mu {\sf H} \\ {\sf Resistors} & : & \varOmega \\ \end{array}$

(6) Tension Spring

 $(\times \times T)$ after a tension spring is shown on the parts list in order to indicate the number of spring turns required for the use.

(Example) TENSION, SPRING(20 T):

This spring must be cut at its 20 th turn for actual use.

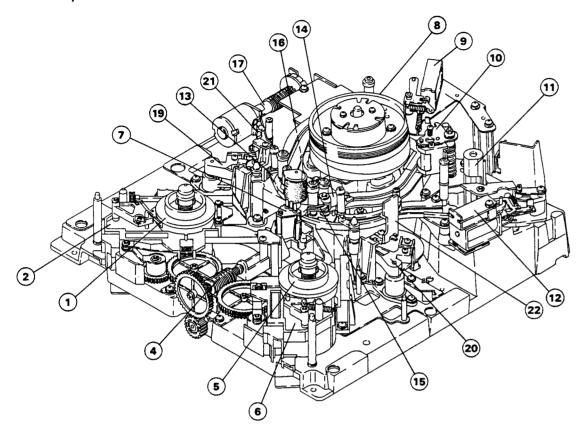
18-2. EXPLODED VIEW

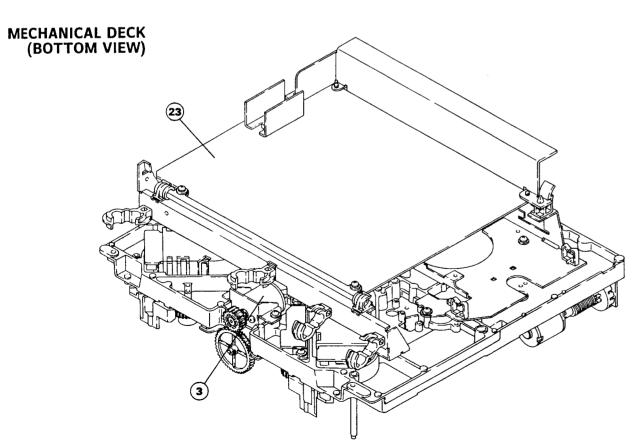
Index of Main Mechanical Parts / Components

Mark	ltem	Title	Page
① ② ③ ④	S Reel Table RS Table (S) Block LS Motor Block LS Gear Block	REEL CHASSIS (1)	18-4
\$ \$ \$	T Reel Table RS Table (T) Block Cassette Sensor	REEL CHASSIS (2)	18-7
8	Head Drum Cleaning Roller Block	DRUM & CLEANING ROLLER ASSEMBLY	18-8
900	Audio/TC Head Capstan Motor Pinch Solenoid Block	HEAD & PINCH PRESS ASSEMBLY	18-11
(13) (14) (15)	S Slider T Slider P Slider	RAIL & SLIDER ASSEMBLY	18-12
16	Threading Ring	THREADING RING	18-15
17	Threading Gear Box	THREADING GEAR BOX ASSEMBLY	18-17
988	S Tension Regulator T Tension Regulator Tape End Sensor Tape Beginning Sensor	TENSION REGULATOR ASSEMBLY	18-19
23	Printed Circuit Board	REEL CHASSIS (3)	18-21
24)	Cassette Compartment	CASSETTE COMPARTMENT ASSEMBLY	18-23
(25)	Upper Lid Bottom Panel Cabinet (right) Cabinet (left)	CHASSIS & ORNAMENTAL PANEL BLOCK	18-24
26	Printed Circuit Boards	CARD RACK BLOCK	18-27
Ø	Front Panel Front Chassis Cassette Guide	FRONT PANEL BLOCK	18-29
28	Key Panel Search Dial	FUNCTION CONTROL PANEL BLOCK	18-31
29	Connector Panel	REAR PANEL BLOCK	18-32

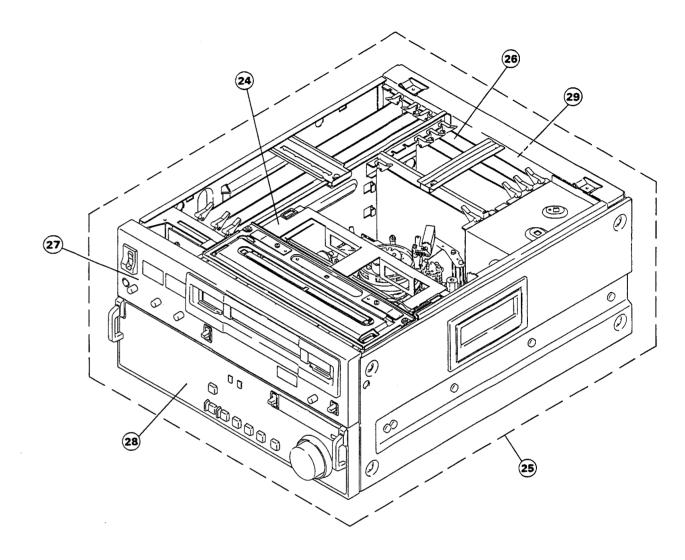
PVW-2600P

MECHANICAL DECK (TOP VIEW)



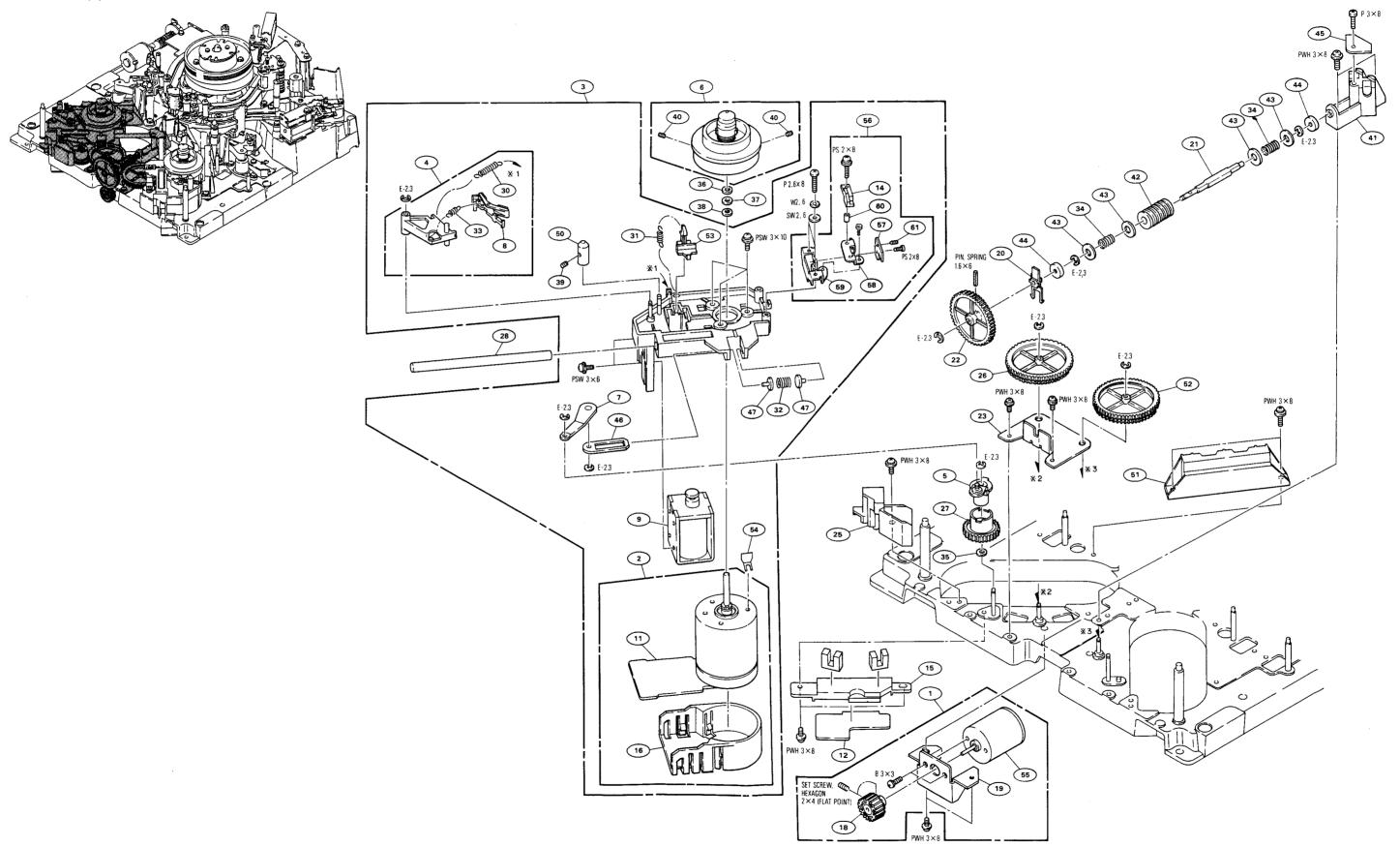


OVERALL BLOCK



Serial No. 15836 and higher (EK) Serial No. 10011 and higher (UC)

Reel chassis (1)



Serial No. 10001 through 15835 (EK) Serial No. 10001 through 10010 (UC)

No.	Part No. SP Description	No.	Part No. SP Description
1 2 3 4 5	A-6737-206-D o MOTOR ASSY, LS A-6737-207-A s RM ASSY A-6739-097-C s TABLE (S) BLOCK ASSY, RS A-6741-066-A o BRAKE ASSY X-3166-024-1 o ARM (A) ASSY, CRANK	53 54 55	3-717-450-01 o ARM, BRAKE RELEASE 3-717-625-01 s SPACER 8-835-179-01 s MOTOR, DC MCB2B15
6 7 8 9 10	X-3166-025-2 s TABLE ASSY, REEL X-3166-060-1 o ARM (B) ASSY, CRANK X-3717-205-1 s LINING ASSY 1-454-417-41 s SOLENOID "S-BRAKE" 1-622-606-11 o PRINTED CIRCUIT BOARD, DE-15		
11 12 14 15 16	1-640-166-12 o PRINTED CIRCUIT BOARD, RM-82 1-640-168-12 o PRINTED CIRCUIT BOARD, PTC-42 1-807-683-11 s DME 3-171-308-01 o BRACKET, LS SENSOR 3-171-309-01 o COVER, RM		
18 19 20 21 22	3-171-316-01 s GEAR, M 3-171-317-02 o BRACKET, M 3-171-318-01 o BEARING, WORM 3-171-319-01 o SHAFT, WORM 3-171-320-01 o GEAR, DRIVE		
23 25 26 27 28	3-171-321-01 o BRACKET, GEAR 3-171-397-02 o HOLDER (S), SHAFT 3-171-429-01 o GEAR, LS 3-171-430-01 o GEAR, CRANK 3-171-431-01 s SHAFT, SLIDE		
30 31 32 33 34	3-307-381-00 s SPRING, TENSION 3-535-532-01 s SPRING, TENSION 3-491-247-00 s SPRING, COMPRESSION 3-648-217-00 o SPRING, TENSION 3-659-324-00 s SPRING, COMPRESSION		
35 36 37 38 39	3-701-439-21 s WASHER, POLY 3MM DIA., 0.5T 3-701-441-01 s WASHER, POLY 4MM DIA., 0.13T 3-701-441-11 s WASHER, POLY 4MM DIA., 0.25T 3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T 3-701-506-01 s SET SCREW, DOUBLE POINT 3X4		
40 41 42 43 44	3-701-507-00 s SET SCREW, DOUBLE POINT, (M3X5) 3-717-208-01 o HOLDER (A), SHAFT 3-717-210-01 s WORM 3-717-212-01 o WASHER (B), WORM 3-717-213-01 o WASHER (A), WORM		
45 46 47 48 49	3-717-224-01 s RETAINER, SHAFT, SLIDE 3-717-230-01 o BRACKET, LIMITER 3-717-231-01 o HOLDER, LIMITER 3-717-232-01 o SHAFT, FITTING, MR SENSOR 3-717-233-01 o BRACKET, DE-15		
50 51 52	3-717-266-01 o CAP (S), CG SHAFT 3-717-398-01 o TABLE, SLIDE 3-717-399-01 s WHEEL, W		

REEL CHASSIS (2)

Serial No. 15836 and higher (EK) Serial No. 10011 and higher (UC)

```
No.
       Part No.
                    SP Description
101
       A-6737-207-A s RM ASSY
102
       A-6739-098-D s TABLE (T) BLOCK ASSY, RS
103
        A-6741-066-A o BRAKE ASSY
       X-3166-024-1 o ARM (A) ASSY, CRANK
104
       X-3166-025-2 s TABLE ASSY, REEL
105
106
       X-3166-060-1 o ARM (B) ASSY, CRANK
       X-3717-205-1 s LINING ASSY
107
108
        1-454-417-41 s SOLENOID "T-BRAKE"
110
        1-640-165-11 o PRINTED CIRUCIT BOARD, PTC-55
111
        1-640-166-12 o PRINTED CIRCUIT BOARD, RM-82
113
        1-807-683-11 s DME
        3-171-309-01 o COVER, RM
114
116
        3-171-313-01 o COVER, MC
117
        3-171-314-01 s LEVER (B), SENSOR
        3-171-328-02 o HOLDER, MC DETECTION
118
120
        3-171-428-02 o HOLDER (T), SHAFT
121
        3-171-430-01 o GEAR. CRANK
122
        3-171-431-01 s SHAFT, SLIDE
124
        3-307-381-00 s SPRING, TENSION
125
        3-535-532-01 s SPRING, TENSION
126
        3-491-247-00 s SPRING, COMPRESSION
127
        3-554-202-00 o SPRING, COMPRESSION
128
        3-648-217-00 o SPRING, TENSION
        3-701-439-21 s WASHER, POLY 3MM DIA., 0.5T
129
        3-701-441-01 s WASHER, POLY 4MM DIA., 0.13T
130
131
        3-701-441-11 s WASHER, POLY 4MM DIA., 0.25T
132
        3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T
133
        3-701-506-01 s SET SCREW, DOUBLE POINT 3X4
        3-701-507-00 s SET SCREW, DOUBLE POINT, (M3X5)
134
135
       3-717-230-01 o BRACKET, LIMITER
       3-717-231-01 o HOLDER, LIMITER
136
139
       3-717-266-01 o CAP (S), CG SHAFT
140
       3-717-398-01 o TABLE SLIDE
141
       3-717-450-01 o ARM, BRAKE RELEASE
142
       3-717-625-01 s SPACER
143
       A-8267-923-A o SENSOR ASSY, FG
       1-646-129-11 o PRINTED CIRCUIT BOARD, SE-186
144
145
       3-183-376-01 o BRACKET, SE
146
       3-183-377-01 o PLATE ADJUSTMENT, SE
147
       3-307-259-01 o TUBE, GAP
148
       3-689-039-11 s SCREW (M2X6), SMALL
```

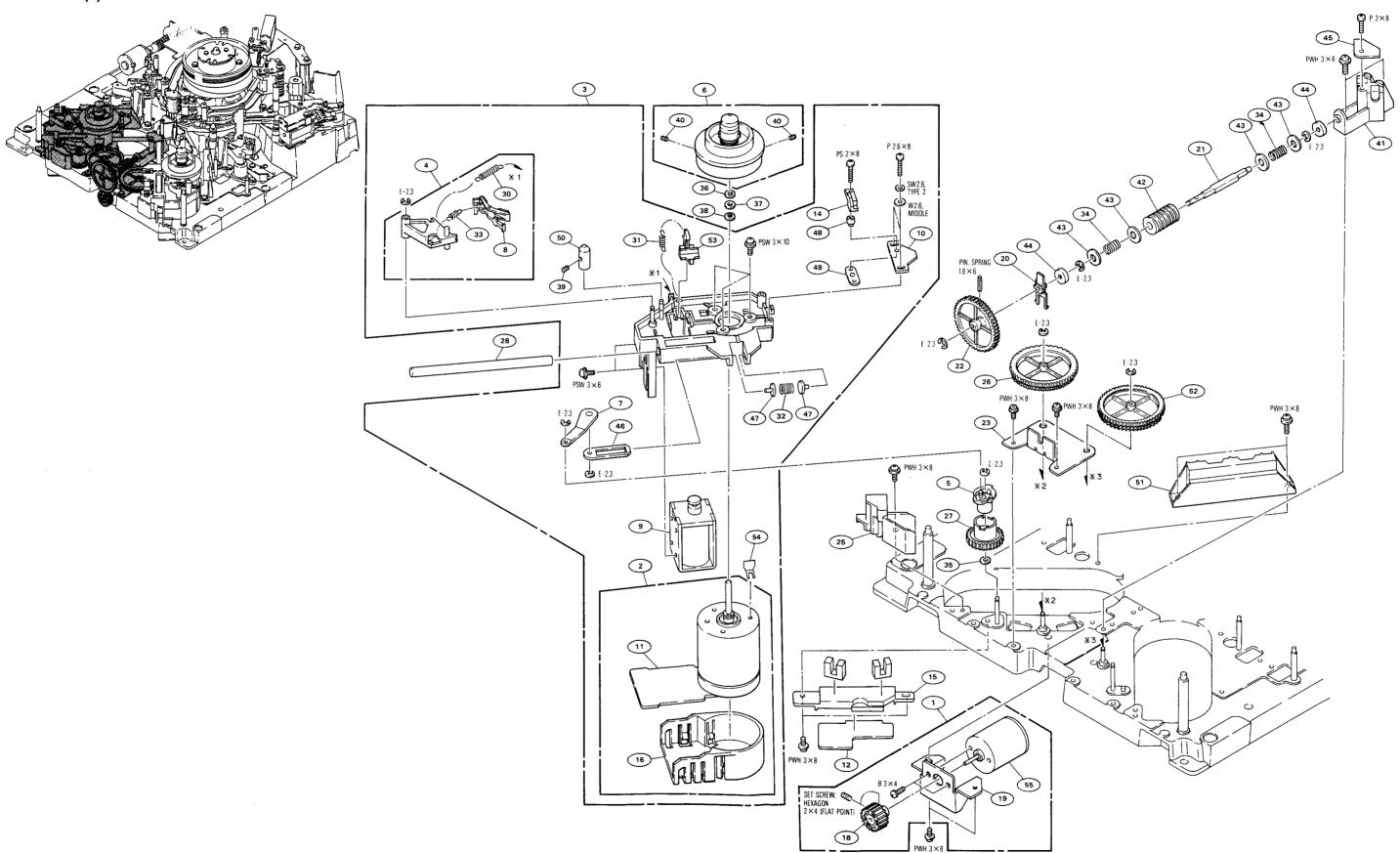
Serial No. 15836 and higher (EK) Serial No. 10011 and higher (UC)

No.	Part No. SP Description	No.	Part No. SP Description
1 2 3 4 5	A-6737-206-E O MOTOR ASSY, LS A-6737-207-A S RM ASSY A-6739-097-D S TABLE (S) BLOCK ASSY, RS A-6741-066-A O BRAKE ASSY X-3166-024-1 O ARM (A) ASSY, CRANK X-3166-025-2 S TABLE ASSY, REEL	53 54 55	3-717-450-01 o ARM, BRAKE RELEASE 3-717-625-01 s SPACER 8-835-179-01 s MOTOR, DC MCB2B15 Serial No. 15836 through 16195 (EK) Serial No. 10011 through 10015 (UC) 1-698-152-11 s MOTOR, DC SVD-1449 Serial No. 16196 and higher (EK) Serial No. 10016 and higher (UC)
7 8 9 11	X-3166-060-1 o ARM (B) ASSY, CRANK X-3717-205-1 s LINING ASSY 1-454-417-41 s SOLENOID "S-BRAKE" 1-640-166-12 o PRINTED CIRCUIT BOARD, RM-82	56 57	A-8267-923-A o SENSOR ASSY, FG 1-646-129-11 o PRINTED CIRCUIT BOARD, SE-186
12 14 15 16 18	1-640-168-12 o PRINTED CIRCUIT BOARD, PTC-42 1-807-683-11 s DME 3-171-308-01 o BRACKET, LS SENSOR 3-171-309-01 o COVER, RM 3-171-316-01 s GEAR, M	58 59 60 61	3-183-376-01 o BRAKET, SE 3-183-377-01 o PLATE ADJUSTMENT, SE 3-307-259-01 o TUBE, GAP 3-689-039-11 s SCREW (M2X6), SMALL
19 20 21 22 23	3-171-317-02 o BRACKET, M 3-171-318-01 o BEARING, WORM 3-171-319-01 o SHAFT, WORM 3-171-320-01 o GEAR, DRIVE 3-171-321-01 o BRACKET, GEAR		
25 26 27 28 30	3-171-397-02 o HOLDER (S), SHAFT 3-171-429-01 o GEAR, LS 3-171-430-01 o GEAR, CRANK 3-171-431-01 s SHAFT, SLIDE 3-307-381-00 s SPRING, TENSION		
31 32 33 34 35	3-535-532-01 s SPRING, TENSION 3-491-247-00 s SPRING, COMPRESSION 3-648-217-00 o SPRING, TENSION 3-659-324-00 s SPRING, COMPRESSION 3-701-439-21 s WASHER, POLY 3MM DIA., 0.5T		
36 37 38 39 40	3-701-441-01 s WASHER, POLY 4MM DIA., 0.13T 3-701-441-11 s WASHER, POLY 4MM DIA., 0.25T 3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T 3-701-506-01 s SET SCREW, DOUBLE POINT 3X4 3-701-507-00 s SET SCREW, DOUBLE POINT, (M3X5)		
41 42 43 44 45	3-717-208-01 o HOLDER (A), SHAFT 3-717-210-01 s WORM 3-717-212-01 o WASHER (B), WORM 3-717-213-01 o WASHER (A), WORM 3-717-224-01 s RETAINER, SHAFT, SLIDE		
46 47 50 51 52	3-717-230-01 o BRACKET, LIMITER 3-717-231-01 o HOLDER, LIMITER 3-717-266-01 o CAP (S), CG SHAFT 3-717-398-01 o TABLE, SLIDE 3-717-399-01 s WHEEL, W		

18-5 (b)

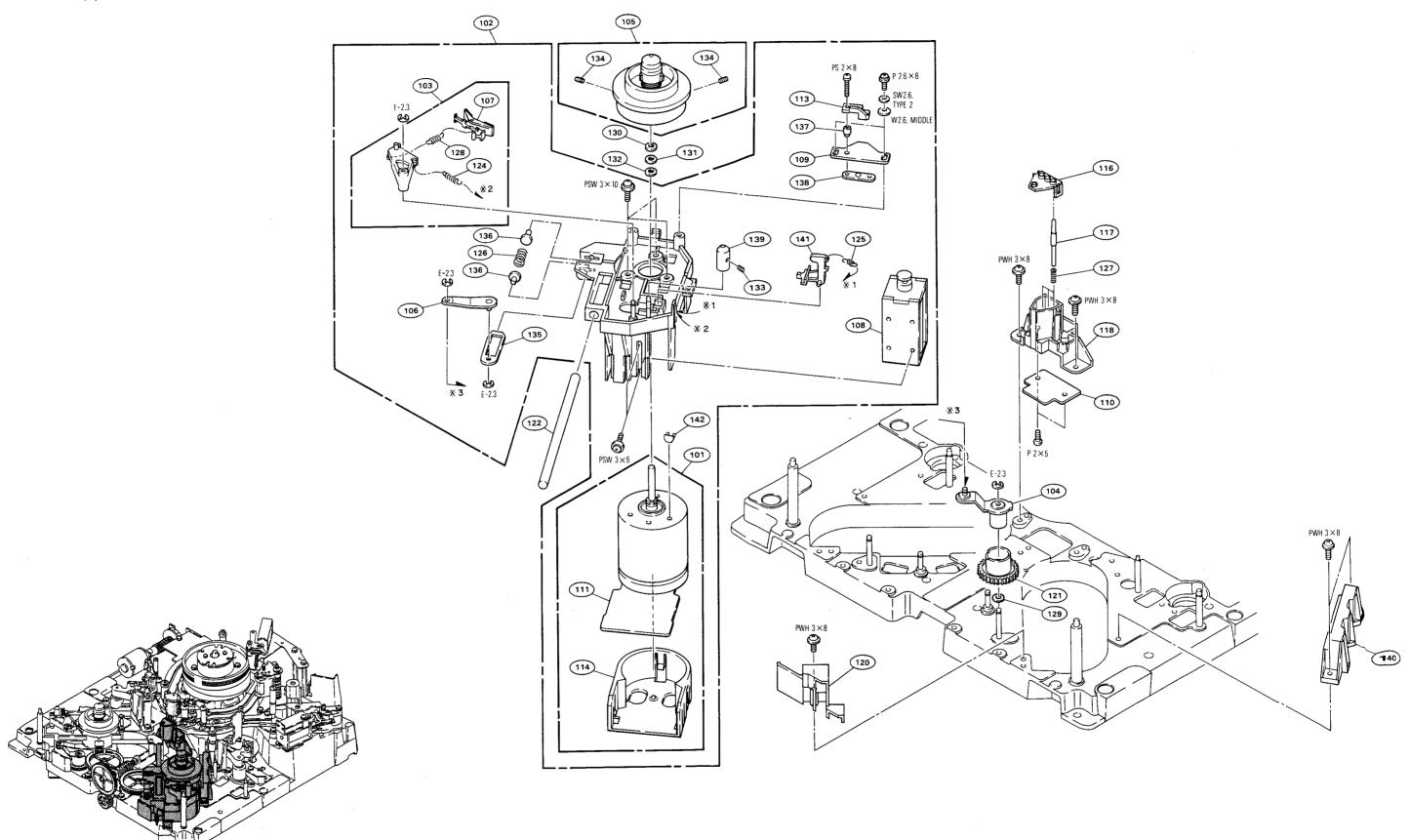
Serial No. 10001 through 15835 (EK) Serial No. 10001 through 10010 (UC)

Reel chassis (1)

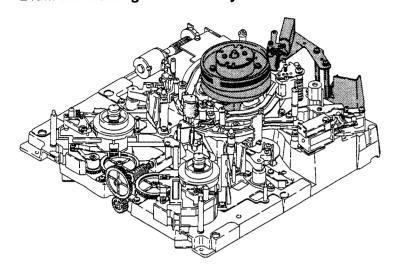


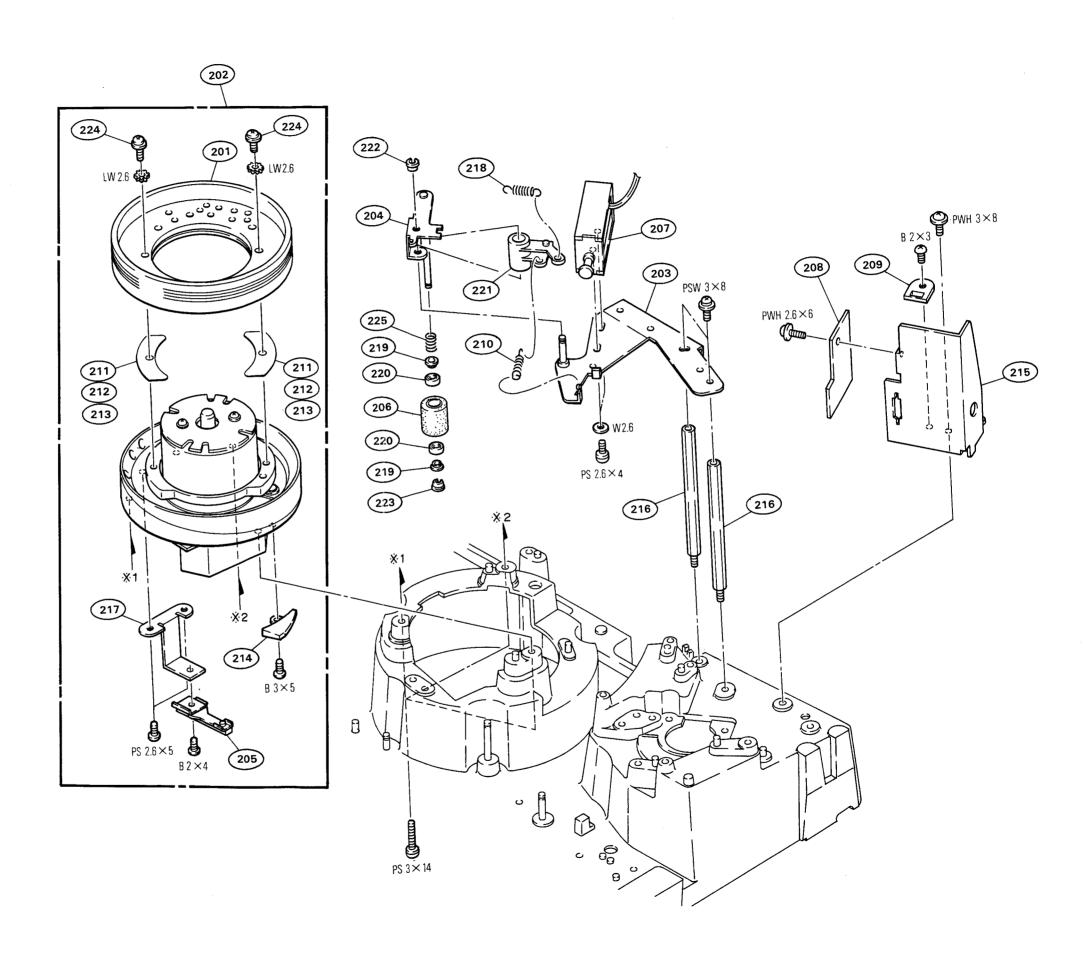
| Serial No. 10001 through 15835 (EK) | Serial No. 10001 through 10010 (UC)

Reel chassis (2)



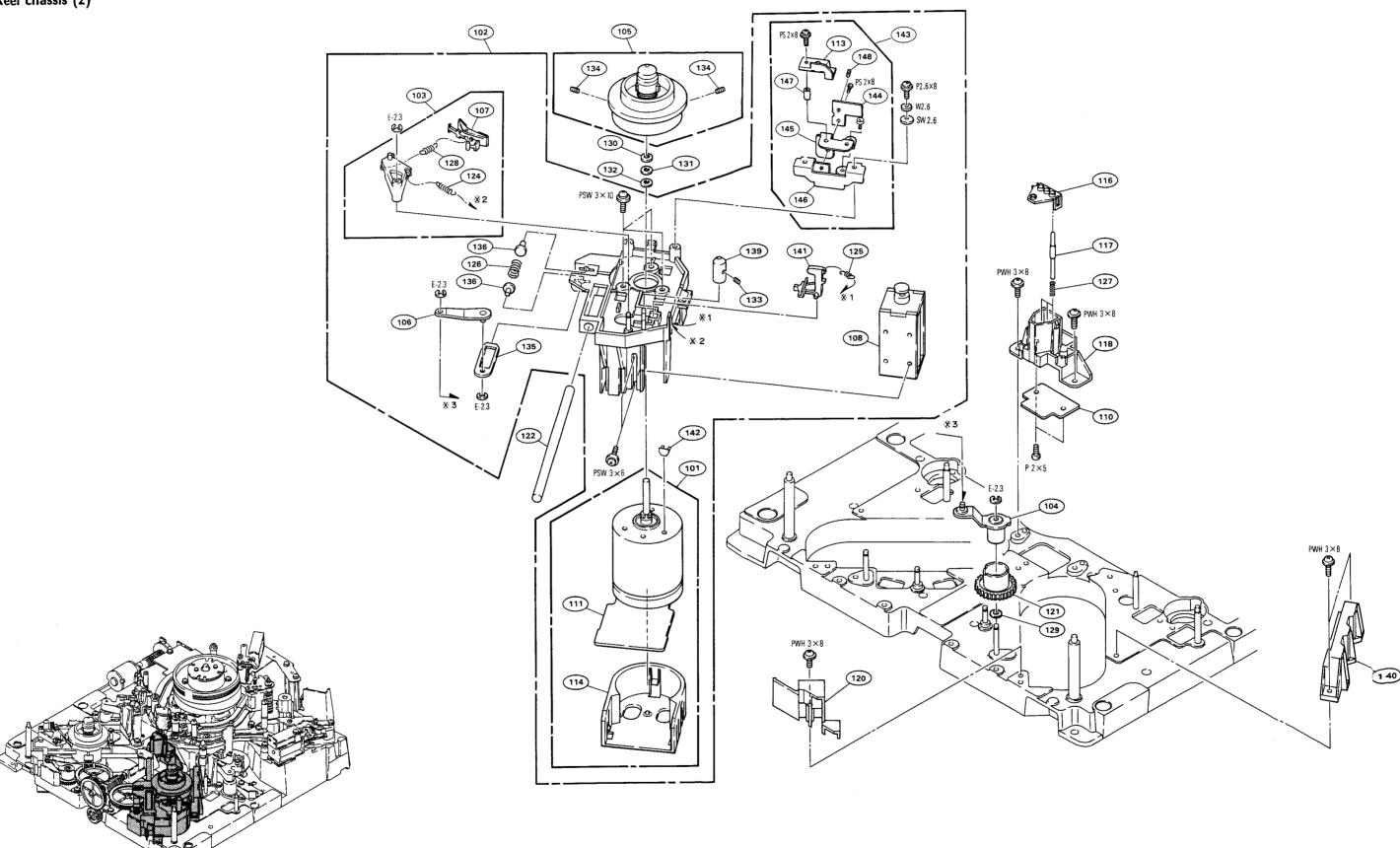
Drum and cleaning roller assembly





Serial No. 15836 and higher (EK) Serial No. 10011 and higher (UC)

Reel chassis (2)



Serial No. 10001 through 15835 (EK) Serial No. 10001 through 10010 (UC)

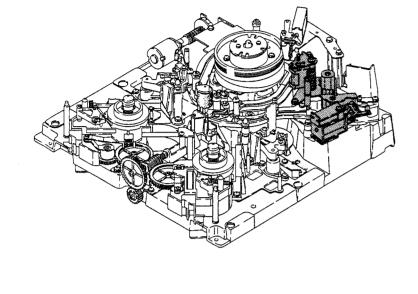
```
Part No. SP Description
      A-6737-207-A s RM ASSY
      A-6739-098-C s TABLE (T) BLOCK ASSY, RS
      A-6741-066-A o BRAKE ASSY
104
      X-3166-024-1 o ARM (A) ASSY, CRANK
105
      X-3166-025-2 s TABLE ASSY, REEL
      X-3166-060-1 o ARM (B) ASSY, CRANK
      X-3717-205-1 s LINING ASSY
      1-454-417-41 s SOLENOID "T-BRAKE"
      1-622-606-11 o PRINTED CIRCUIT BOARD, DE-15
      1-640-165-11 o PRINTED CIRUCIT BOARD, PTC-55
111
      1-640-166-12 o PRINTED CIRCUIT BOARD, RM-82
113
      1-807-683-11 s DME
114
      3-171-309-01 o COVER, RM
116
      3-171-313-01 o COVER, MC
      3-171-314-01 s LEVER (B), SENSOR
117
118
      3-171-328-02 o HOLDER, MC DETECTION
120
      3-171-428-02 o HOLDER (T), SHAFT
121
      3-171-430-01 o GEAR, CRANK
      3-171-431-01 s SHAFT, SLIDE
124
      3-307-381-00 s SPRING, TENSION
125
      3-535-532-01 s SPRING, TENSION
      3-491-247-00 s SPRING, COMPRESSION
126
127
      3-554-202-00 o SPRING, COMPRESSION
      3-648-217-00 o SPRING, TENSION
128
129
      3-701-439-21 s WASHER, POLY 3MM DIA., 0.5T
      3-701-441-01 s WASHER, POLY 4MM DIA., 0.13T
      3-701-441-11 s WASHER, POLY 4MM DIA., 0.25T
      3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T
133
      3-701-506-01 s SET SCREW, DOUBLE POINT 3X4
134
      3-701-507-00 s SET SCREW, DOUBLE POINT, (M3X5)
135
      3-717-230-01 o BRACKET, LIMITER
      3-717-231-01 o HOLDER, LIMITER
137
      3-717-232-01 o SHAFT, FITTING, MR SENSOR
138
      3-717-233-01 o BRACKET, DE-15
139
      3-717-266-01 o CAP (S), CG SHAFT
      3-717-398-01 o TABLE SLIDE
141
      3-717-450-01 o ARM, BRAKE RELEASE
      3-717-625-01 s SPACER
```

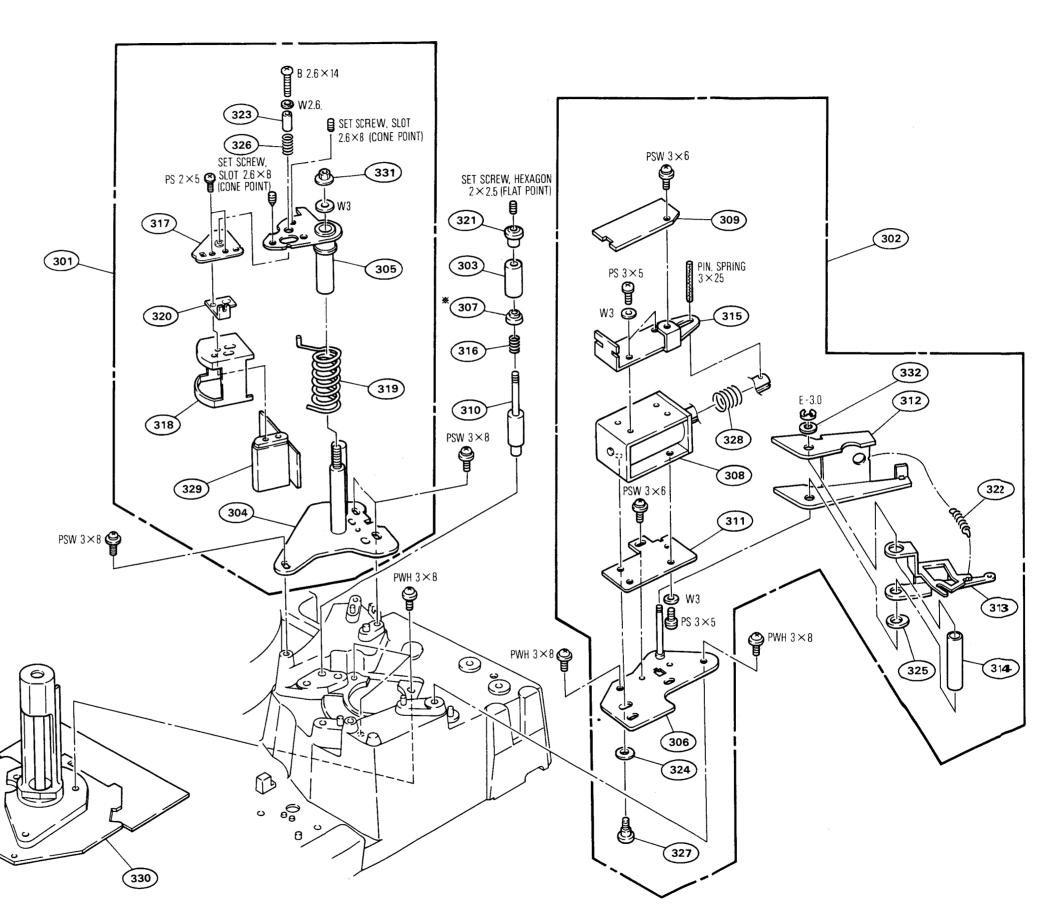
No.	Part No. SP Description
201	A-6762-463-A s UPPER DRUM ASSY, DBR-28-R
202	while both look boll ool D
203	X-3166-324-1 o C (BASE) ASSY
204	X-3166-325-1 o ARM ASSY, C MAIN
205	X-3166-376-1 s GROUND ASSY, SHAFT
206	X-3675-858-1 s ROLLER SUB ASSY, C
207	1-454-372-11 s SOLENOID "CLEANING ROLLER"
208	1-640-167-11 o PRINTED CIRCUIT BOARD, DS-31
209	1-806-682-71 s SENSOR, DEW CONDENSATION
210	3-140-263-XX s SPRING, TENSION (23T)
211	3-171-234-01 s SPACER, FLANGE
212	3-171-234-11 s SPACER, FLANGE
213	3-171-234-21 s SPACER, FLANGE
214	3-171-326-01 o BRACKET (B), TAPE
215	3-172-933-01 o BRACKET, DEW SENSOR
216	3-173-187-01 o SUPPORT
217	THE PROPERTY OF STREET
218	THE PARTY OF THE P
219	
220	THE THE PARTY OF THE CASE OF THE PARTY OF TH
2 21	3-680-839-01 o LEVER (2), C
222	
223	3-703-075-00 s CAP 2, SHAFT
224	3-729-125-01 s SCREW (M2.6X8)
225	4-879-762-02 s SPRING, COMPRESSION
	• • · · · · · · · · · · · · · · · · · ·

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Part No.
                      SP Description
  No.
          A-6736-098-C o HEAD (P) ASSY, AT
  301
          A-6749-125-A o PRESS ASSY, PINCH
   302
          X-3166-431-1 s ROLLER (TG-6) ASSY, TAPE
   303
          X-3166-044-2 s DECK (P) ASSY, AT
   304
          X-3166-050-1 o PLATE ASSY, ADJUSTMENT, RP
   305
          X-3166-061-2 o BASE ASSY, PINCH PRESS
   306
          3-174-316-02 s FLANGE (LOWER)
※ 307
                          As to the models of the
                          following serial Nos., when
                          replacing this part,
                          replace No. 316 SPRING,
                          COMPRESSION with a new part
                          (2-242-703-00) at the same
                          Serial No. 10001 through 11150 (EK)
          1-454-338-00 s SOLENOID "PINCH"
   308
          1-640-162-12 o PRINTED CIRCUIT BOARD, PD-56
   309
          3-171-307-01 o SHAFT, TG-6
   310
          3-171-331-01 o BASE, SOLENOID
   311
          3-171-332-01 o ARM, PINCH PRESS
   312
           3-171-333-01 o ARM, SUB PRESS
   313
           3-171-334-02 o COLLAR, PINCH SHAFT
   314
          3-171-335-01 o HOLDER, PC BOARD
   315
           3-171-344-01 s SPRING, COMPRESSION
   316
                          Serial No. 10001 through 11150 (EK)
           2-242-703-00 s SPRING, COMPRESSION
                          Serial No. 11151 and higher (EK)
                          Serial No. 10001 and higher (UC)
   317
           3-171-567-03 o BRACKET, RP
           3-171-568-01 o CASE, SHIELD, AT
   318
           3-171-569-01 s SPRING (A)
   319
           3-171-570-01 o PLATE (R), ADJUSTMENT
   320
           3-173-176-01 s NUT, ADJUSTMENT
   321
   322
           3-578-532-00 s SPRING, TENSION
           3-642-719-01 o SPACER (2.6X11)
   323
           3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T
   324
           3-701-444-21 s WASHER, POLY 6MM DIA., 0.50T
   325
           3-738-730-01 s SPRING, COMPRESSION
   326
           4-835-134-00 s SCREW, TD 3.8X2.5
   327
           4-860-709-02 s SPRING, COMPRESSION
   328
           8-825-776-22 s HEAD PS244-2103E "AUDIO/TC"
   329
           8-835-445-01 s MOTOR, DC SCV-0301A "CAPSTAN"
   330
           4-334-513-00 s NUT, NYLON
   331
                          Serial No. 12851 and higher (EK)
                          Serial No. 10001 and higher (UC)
           3-701-441-11 s WASHER, POLY 4MM DIA, 0.25T
   332
                          Serial No. 12951 and higher (EK)
                          Serial No. 10001 and higher (UC)
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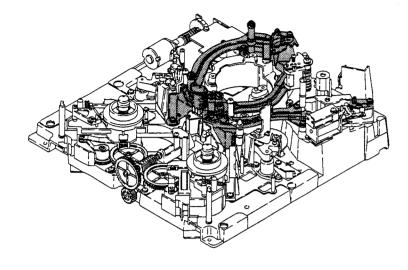
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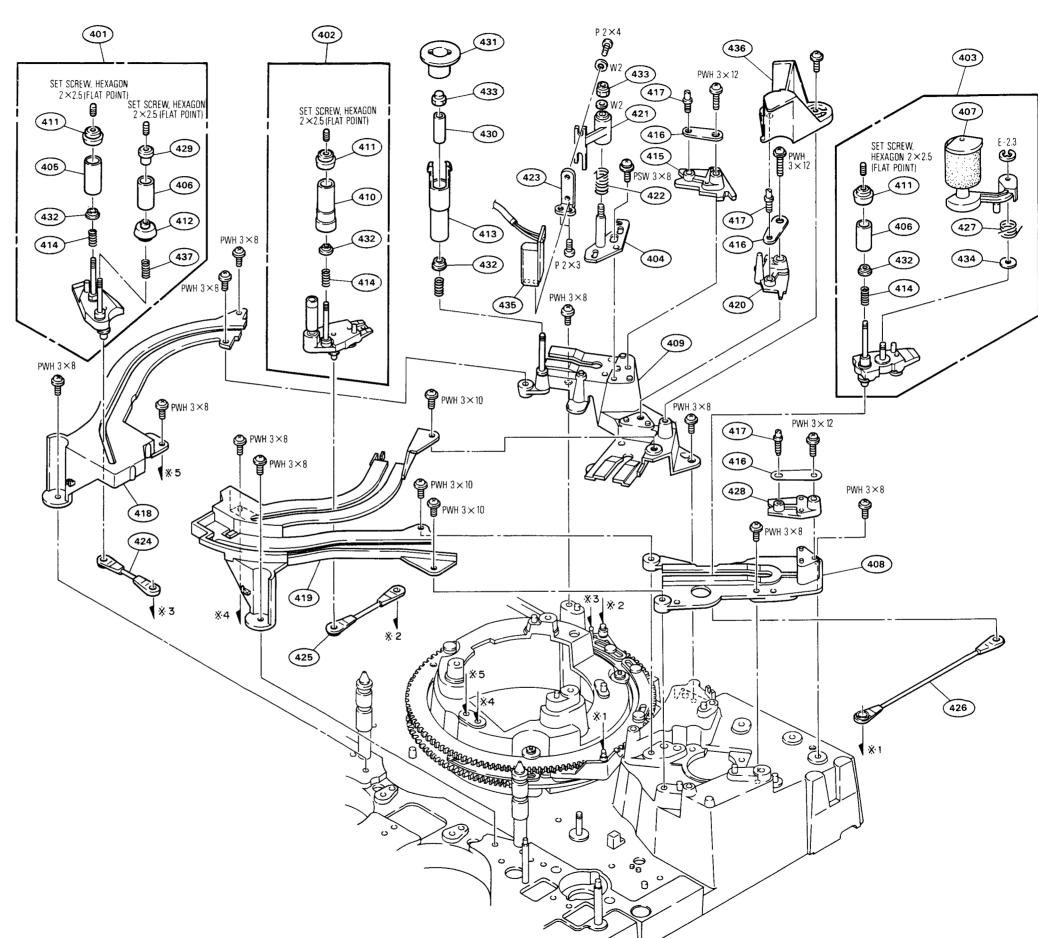
Head and pinch press assembly





Rail and slider assembly





PVW-2600P

18 - 12

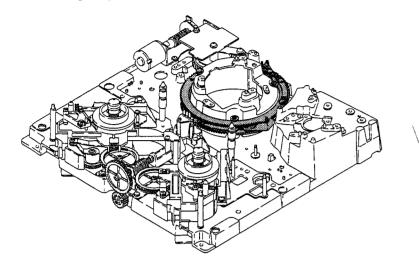
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Part No.
                   SP Description
No.
       A-6750-291-D s SLIDER ASSY, S
401
                      Serial No. 10001 through 12490 (EK)
       A-8262-601-A s SLIDER ASSY, S
                      Serial No. 12851 and higher (EK)
                      Serial No. 10001 and higher (UC)
       A-6750-292-D s SLIDER ASSY, T
402
       A-6750-293-E s SLIDER ASSY, P
403
       X-3166-027-1 o BASE ASSY, CTL
404
       X-3166-573-1 s TG-3 ASSY
405
       3-176-903-01 s TAPE GIUDE
406
       X-3166-040-4 s ARM ASSY, PINCH
407
       X-3166-042-2 o BASE SUB ASSY, P
408
       X-3166-072-6 s BASE SUB ASSY, ST
409
       X-3166-320-1 s TG-5 ASSY
410
       3-174-315-01 s FLANGE (UPPER)
411
       3-176-902-01 s FLANGE (LOWER)
412
       X-3166-386-1 s TG-4 (IP) ASSY
413
        3-171-344-01 s SPRING, COMPRESSION
414
        3-171-345-01 s PLATE, ADJUSTMENT, S
 415
        3-171-346-01 o SPRING, ADJUSTMENT
 416
        3-171-347-01 o SCREW, ADJUSTMENT
 417
        3-171-348-02 s RAIL, S
 418
        3-171-349-05 o RAIL, T
 419
        3-171-378-02 s PLATE, ADJUSTMENT, T
 420
        3-171-381-02 o ARM, CTL
 421
        3-171-382-01 s SPRING, CTL
 422
        3-171-383-02 o PLATE, SIDE, CTL
 423
        3-171-432-02 s ROD, S
 424
        3-171-433-02 s ROD, T
 425
        3-171-434-02 s ROD, P
 426
        3-171-498-01 s SPRING, PINCH ARM RETURN
 427
        3-171-515-01 s PLATE, ADJUSTMENT, P
 428
        3-173-176-01 s NUT, ADJUSTMENT
 429
        3-173-648-01 o RETAINER, BEARING
 430
        3-174-897-01 s WHEEL, FLY (P)
 431
        3-655-966-00 s SPACER, STEP
 432
        3-698-829-01 s NUT (M2)
 433
        3-701-439-01 s WASHER, POLY 3MM DIA., 0.13T
 434
        8-825-776-41 s HEAD PS244-21C "CTL"
 435
        3-174-911-01 o COVER, AU HEAD
 436
        3-513-234-00 s SPRING, COMPRESSION
 437
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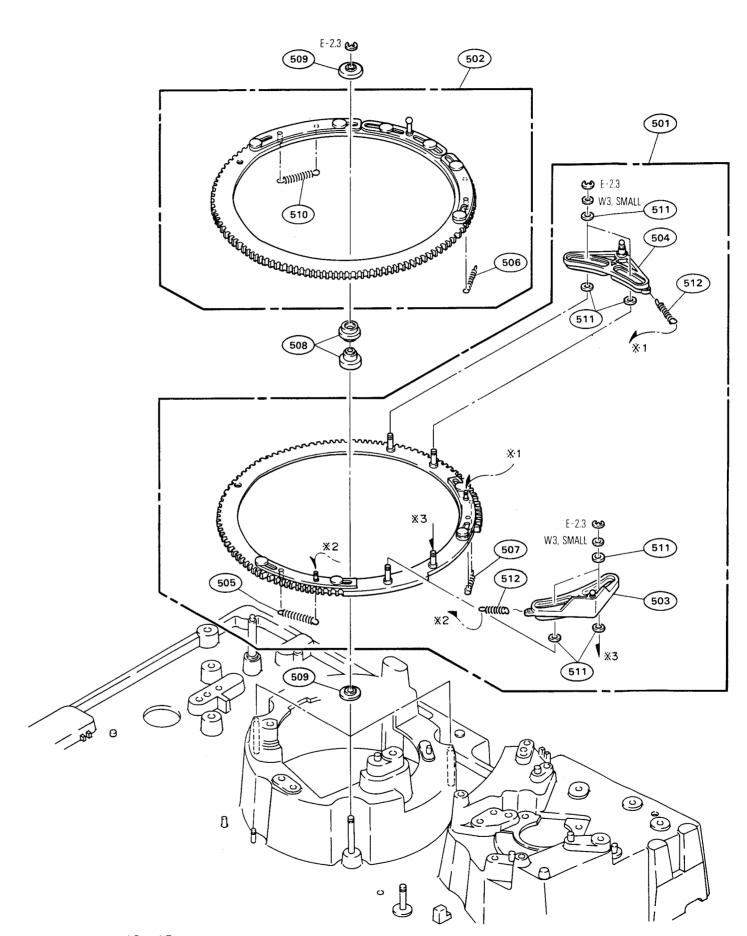
HREADING RING

No.	Part No. SP I	Description	
502 503 504	A-6750-289-C o I A-6750-290-B o I X-3166-028-2 o S X-3166-029-2 o S 3-171-384-01 o S	RING ASSY, S SLIDER ASSY, P SLIDER ASSY, T	
507 508 509	3-171-385-01 o 3 3-171-386-01 o 3 3-171-435-03 o 1 3-171-436-02 o 1 3-171-468-01 o 3	SPRING, TENSION ROLLER (A), RING ROLLER (B), RING	
511 512	3-171-385-01 o	Serial No. 10001	through 12490 (EK) and higher (EK)

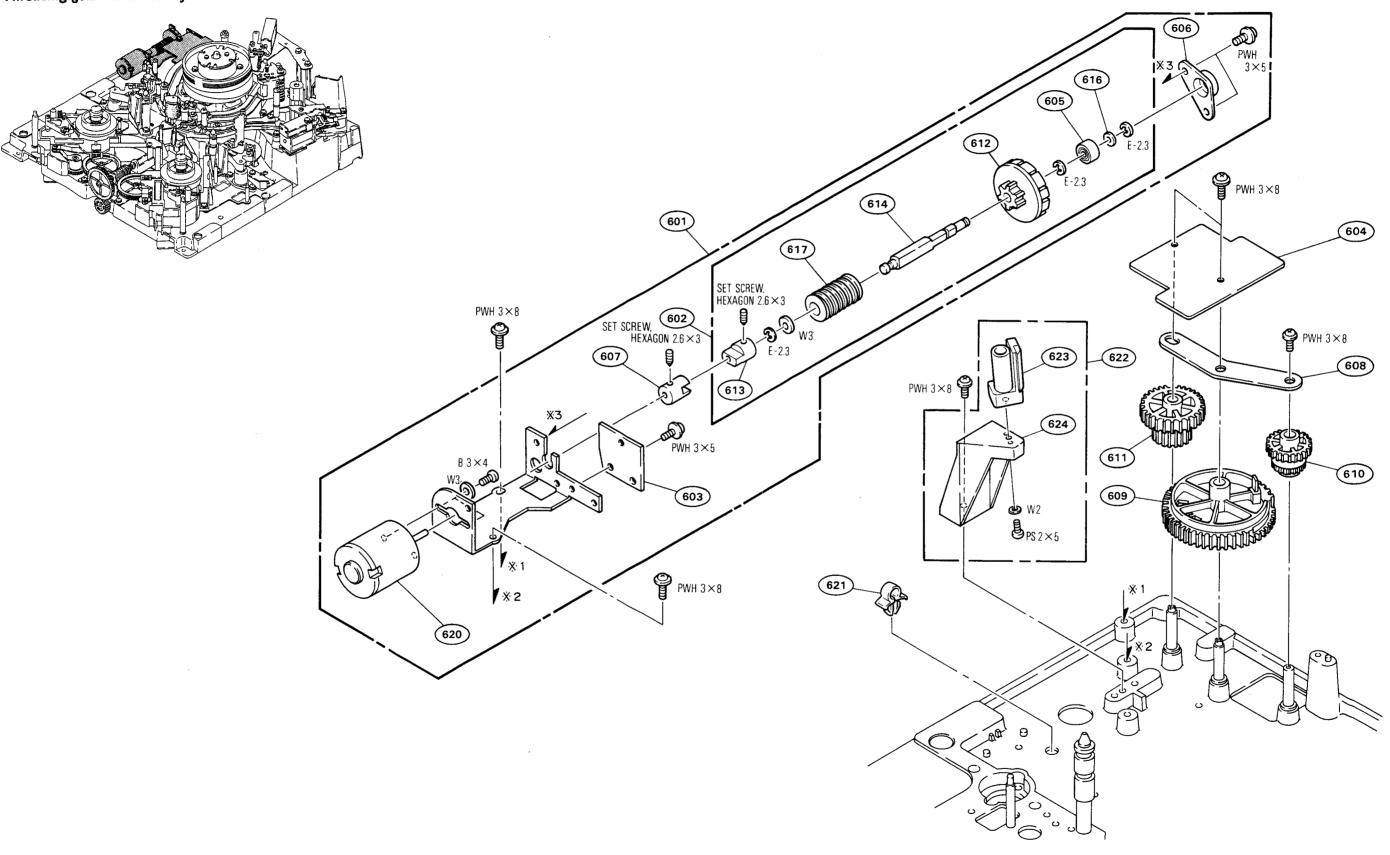
PVW-2600P

Threading ring





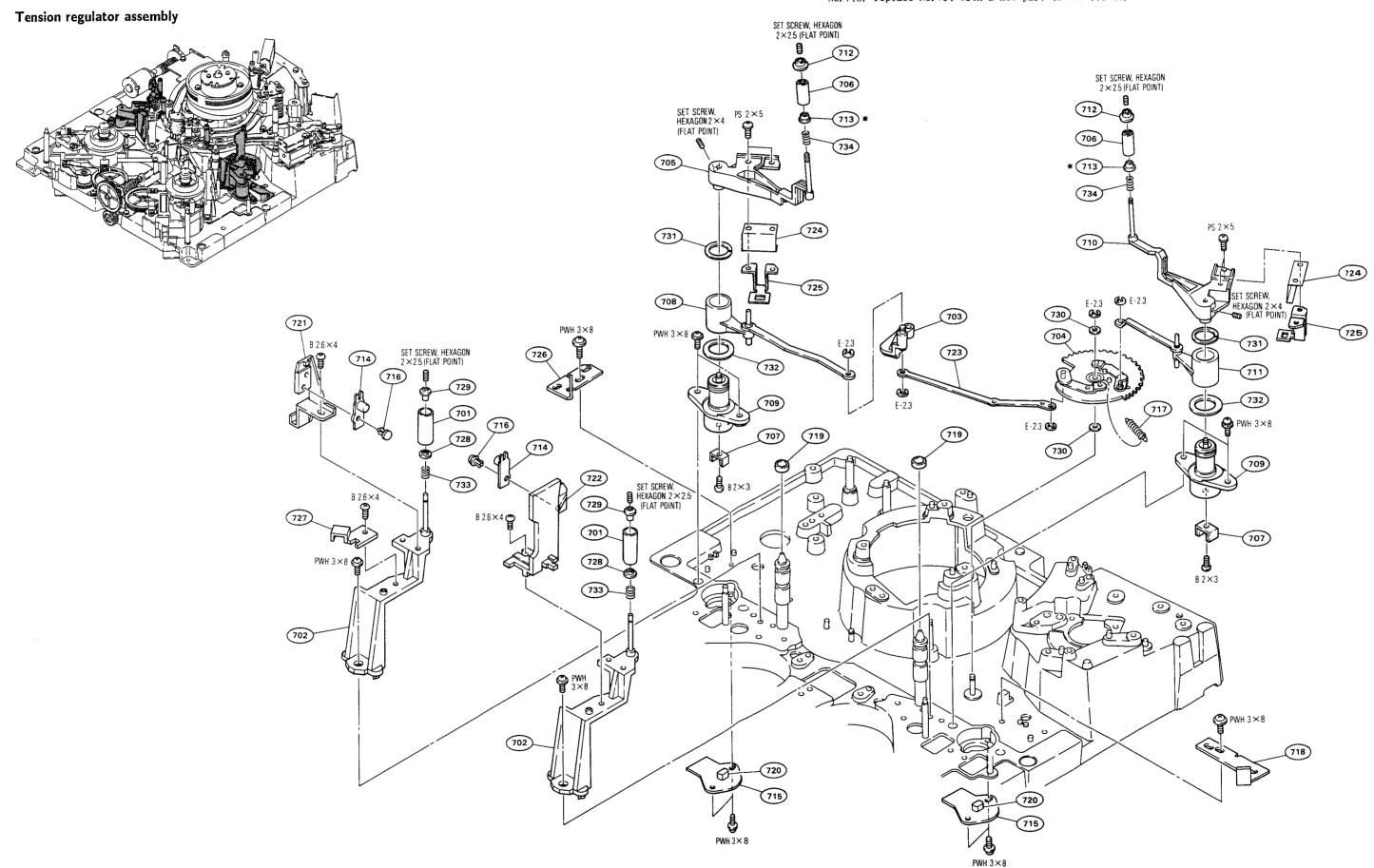
Threading gear box assembly



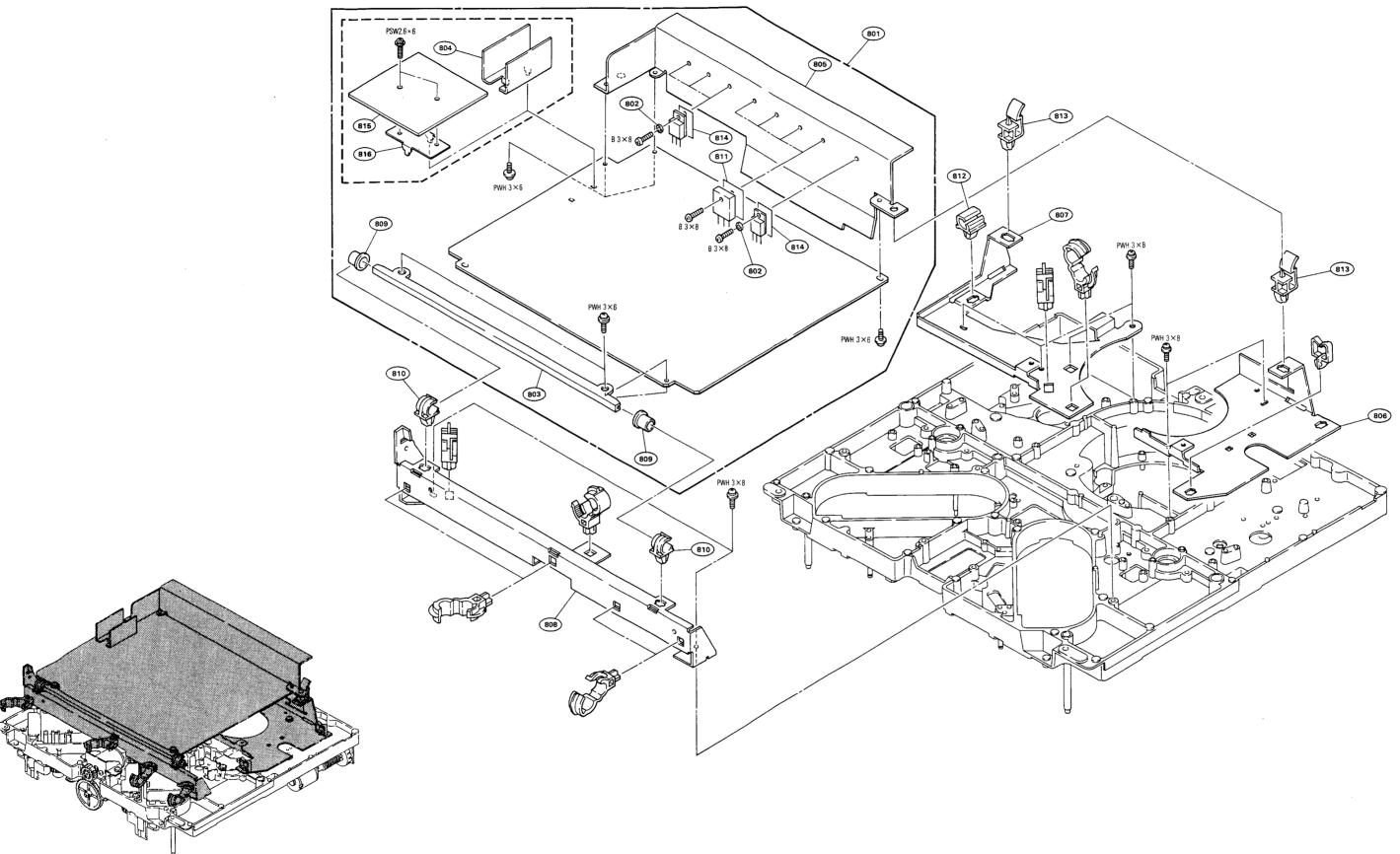
No.	Part No. SP Description
601 602 603 604 605	A-6750-294-C s MOTOR ASSY, LOADING A-6750-295-B o WORM ASSY 1-640-163-11 o PRINTED CIRCUIT BOARD, PTC-54 1-640-164-11 o PRINTED CIRCUIT BOARD, PTC-49 2-621-007-01 s BEARING, BALL, (B) (NO FRANGE)
606 607 608 609 610	
611 612 613 614 616	
617 620	3-717-210-01 s WORM 8-835-179-01 s MOTOR, DC MCB2B15 Serial No. 10001 through 16195 (EK) Serial No. 10001 through 10015 (UC)
	1-698-152-11 s MOTOR, DC SVD-1449 Serial No. 16196 and higher (EK) Serial No. 10016 and higher (UC)
621 622	A-8310-268-A s BLADE ASSY Serial No. 16396 and higher (EK)
623	Serial No. 10016 and higher (UC) X-3167-212-2 s CLEANING BLADE ASSY Serial No. 16396 and higher (EK) Serial No. 10016 and higher (UC)
624	3-171-571-01 o BASE, FE Serial No. 16396 and higher (EK) Serial No. 10016 and higher (UC)

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SP Description
  No.
          Part No.
         X-3166-037-2 s ROLLER (M) ASSY, TAPE
  701
          X-3166-043-2 o ARM ASSY, CASSETTE EXIT
  702
          X-3166-047-1 o ARM ASSY, SUB DRIVING
  703
          X-3166-048-3 o GEAR SUB ASSY, DRIVING
  704
          X-3166-051-4 s ARM ASSY, S TENSION REGULATOR
  705
          X-3166-052-2 s ROLLER (S-T) ASSY, TAPE
  706
          X-3166-053-2 o YOKE ASSY, MAGNET
  707
          X-3166-054-1 o ARM ASSY, DRIVING
   708
          X-3166-055-2 s SUPPORT ASSY, TENSION REGULATOR
   709
          X-3166-057-2 s ARM ASSY, T TENSION REGULATOR
   710
          X-3166-059-1 o ARM ASSY, DRIVING
   711
          3-174-315-01 s FLANGE (UPPER)
  712
          3-174-316-02 s FLANGE (LOWER)
※ 713
                          As to the models of the following
                          serial Nos., when this
                          part, replace No. 734 SPRING,
                          COMPRESSION with a new part
                          (2-618-901-00) at the same time.
                          Serial No. 10001 through 11150 (EK)
          1-543-316-31 s HEAD, SENSING
   714
          1-640-161-11 o PRINTED CIRCUIT BOARD, TR-73
   715
          2-279-715-01 s RIVET, NYLON
   716
          3-531-860-00 s SPRING, TENSION
   717
          3-171-350-01 o STOPPER, T
   718
           3-171-351-01 o STOPPER, TENSION REGULATOR
   719
   720
          3-171-392-01 s HOLDER, DME
          3-171-516-01 o HOLDER, S SENSOR
   721
          3-171-519-02 s HOLDER, T SENSOR
   722
          3-171-520-01 o DISK (A), S TENSION REGULATOR
   723
           3-171-579-02 o SPRING, LEAF, TENSION REGULATOR
   724
           3-176-613-02 o PROTECTOR
   725
   726
           3-171-592-01 o STOPPER, S
   727
           3-172-763-01 o HOLDER, SENSOR HARNESS
           3-173-172-01 s FLANGE, LOWER
   728
           3-173-176-01 s NUT, ADJUSTMENT
   729
           3-701-439-21 s WASHER, POLY, 3MM DIA., 0.5T
   730
           3-701-447-21 s WASHER
   731
           3-701-448-21 s WASHER, POLYETHYLENE
   732
   733
           4-879-563-00 s SPRING, COMPRESSION
           4-879-762-00 s SPRING, COMPRESSION
   734
                          Serial No. 10001 through 11150 (EK)
           2-618-901-00 s SPRING
                          Serial No. 11151 and higher (EK)
                          Serial No. 10001 and higher (UC)
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**As to the model of its serial No. is among 10001 through 11150(EK), when replacing No.713, replace No.734 with a new part (2-618-901-00) at the same time.





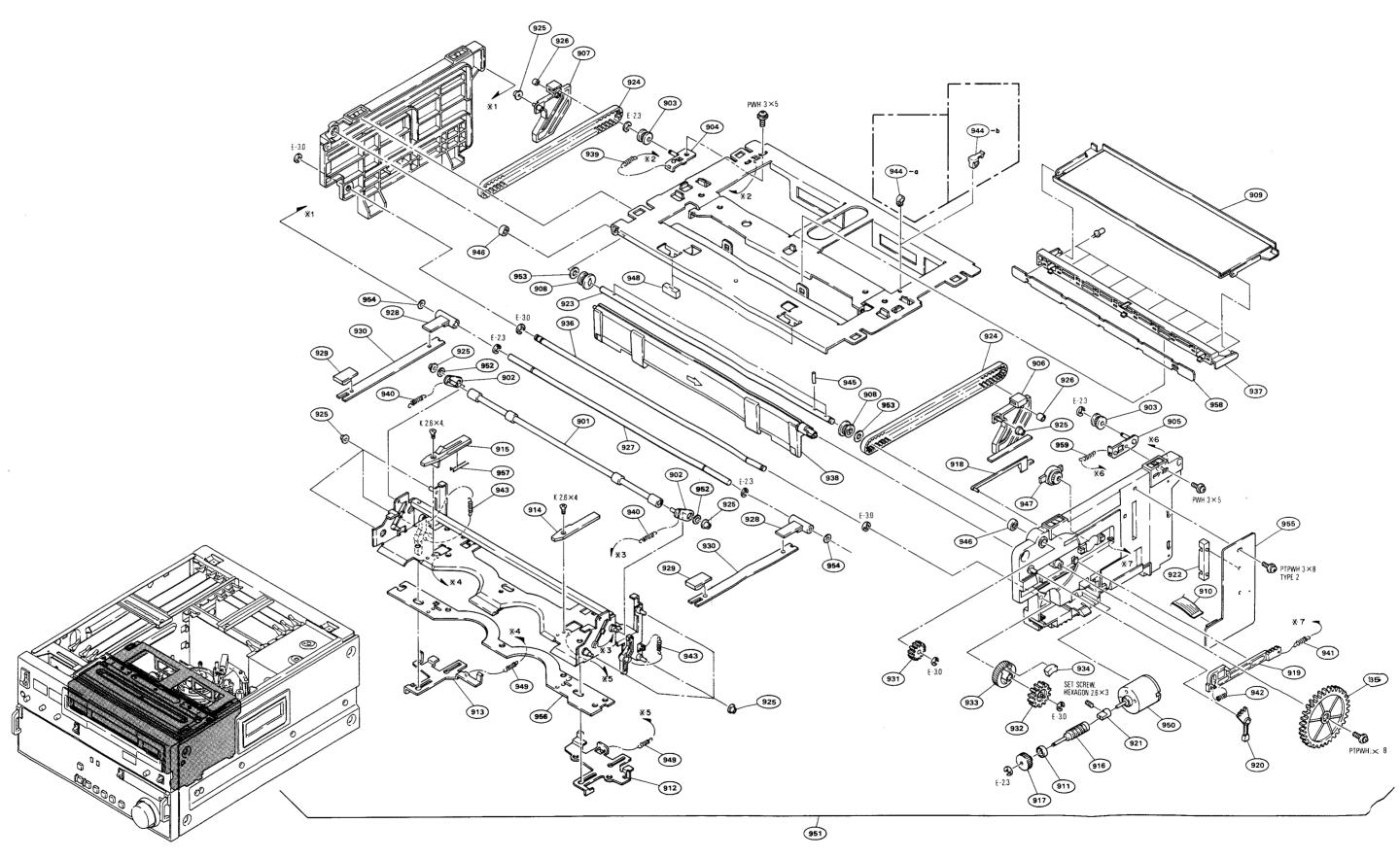


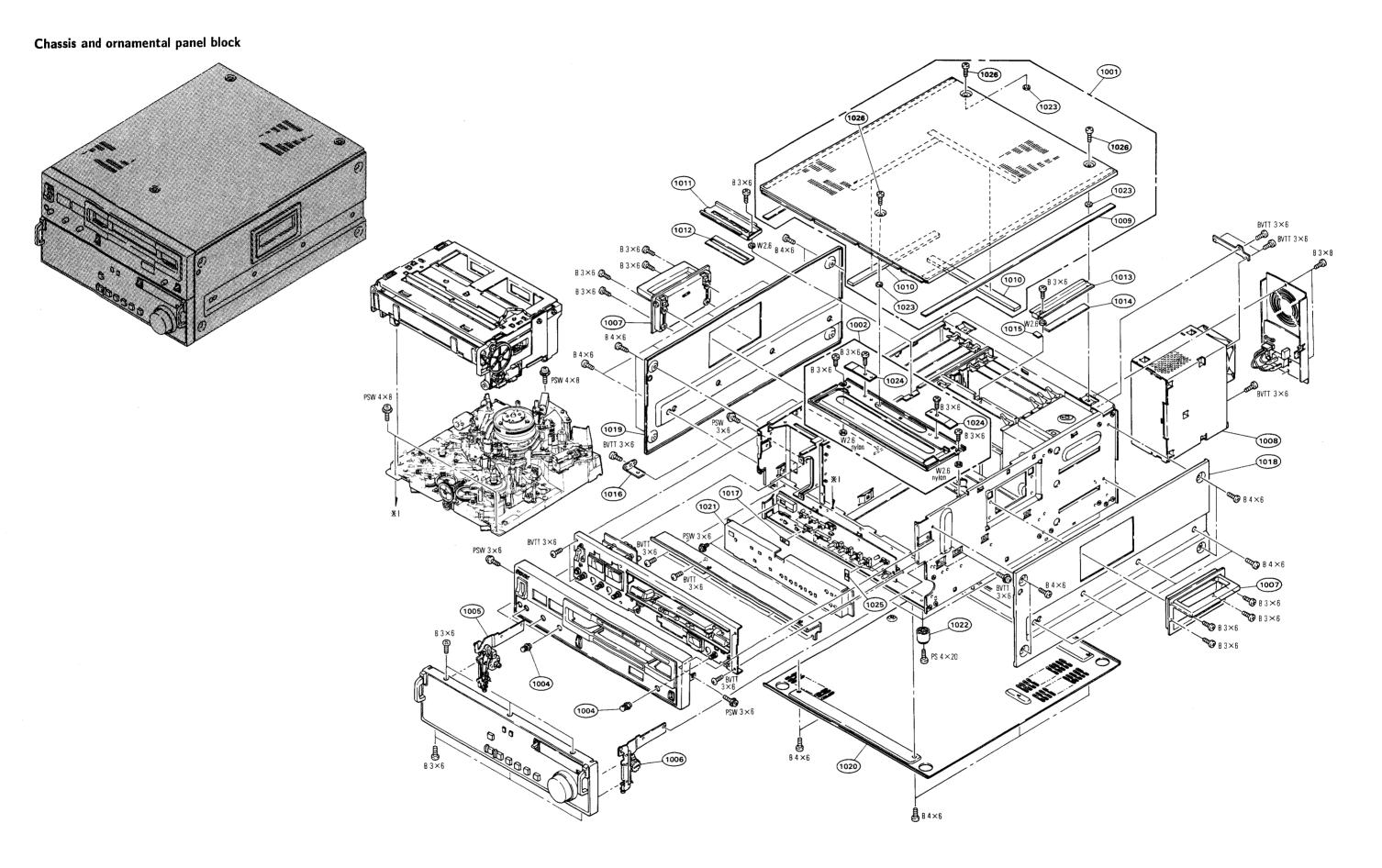
No.	Part No. SP Description
801	A-6717-623-B o MOUNTED CIRCUIT BOARD, DR-118A
	Serial No. 10001 through 14045 (EK)
	Serial No. 10001 through 10010 (UC)
	A-8271-718-A o MOUNTED CIRCUIT BOARD, DR-232 (A)
	Serial No. 14046 and higher (EK) Serial No. 10011 and higher (UC)
909	2-371-561-01 s BUSHING (P), INSULATING
802 803	armnong by
804	The second secon
004	Serial No. 10001 through 12490 (EK)
805	3-171-493-01 o HEAT SINK (A)
806	3-171-494-02 o PLATE, FIXED, DD
807	3-171-505-02 o PLATE, FIXED, DT
808	3-171-506-02 O PLATE, FIXED, DR
809	
810	3-646-086-01 o HOLDER, ROD
011	3-660-978-00 s SHEET, HEAT RESISTING
811 812	3-703-072-00 o HOLDER, PCB
813	TOTAL DOD
814	4-911-232-01 s SHEET, INSULATING
815	
	Serial No. 12851 and higher (EK)
	Serial No. 10001 and higher (UC)
816	3-176-490-01 o HEAT SINK (1), DR
010	Serial No. 12851 and higher (EK)
	Serial No. 10001 and higher (UC)

No.	Part No. SF	P Description	No.	Part No. SP Description
001	V_2166_069_1	SHAFT ASSY, PRESS ROLLER	939	3-554-122-00 o SPRING, TENSION
901 902		O ARM ASSY, PRESS	JJJ	Serial No. 10001 through 12950 (EK)
903	3-176-584-01			3-176-578-01 s SPRING, TENSION
904		DECK (L) ASSY, PULLEY		Serial No. 12951 and higher (EK)
905		DECK (R) ASSY, PULLEY		Serial No. 10001 and higher (UC)
000	0100 000 1	(1.)	940	3-548-757-00 s SPRING, TENSION
906	X-3166-067-1	o SLIDER (R) ASSY	941	3-672-461-00 s SPRING, TENSION
907		o SLIDER (L) ASSY	942	3-579-759-00 s SPRING, COMPRESSION
908	3-176-583-01		943	3-646-214-00 s SPRING
909	X-3166-217-1	s MIRROR ASSY		
910	1-690-106-12	s WIRE, FLEXIBLE CARD 5P	944-a	3-660-815-00 o CLIP, CABLE
			044.1	Serial No. 10001 through 10650 (EK)
911		s BEARING, BALL, (B) (NO FRANGE)	944-b	3-671-150-01 o CLAMP
912		o SWITCH (R), IN		Serial No. 10651 and higher (EK)
913	3-171-398-03	o SWITCH (L), IN	945	Serial No. 10001 and higher (UC) 3-677-193-00 o PIN, STOPPER
914	3-171-399-02	o GUIDE (R), CASSETTE o GUIDE (L), CASSETTE	945	5"Off" 195" OU O FIR, STOFFER
915	3-111-400-02	O GUIDE (L), CASSEITE	946	3-698-217-01 s BEARING (NO FLANGE), BALL
916	3-171-418-02	s WORM	947	3-712-786-01 s DAMPER, OIL
917	3-171-419-03		948	3-717-369-04 o STOPPER, DOOR
918	3-171-420-01		949	4-858-799-00 s SPRING, TENSION
919	3-171-421-01	o SLIDER, DOOR SWITCHING	950	8-835-179-01 s MOTOR, DC MCB2B15
920	3-171-422-01	o LEVER, DOOR SWITCHING		Serial No. 10001 through 16195 (EK)
				Serial No. 10001 through 10015 (UC)
921		o JOINT, MOTOR		1-698-152-11 s MOTOR, DC SVD-1449
922		o HOLDER, SENSOR		Serial No. 16196 and higher (EK)
923		o SHAFT, JOINT		Serial No. 10016 and higher (UC)
924 925		s BELT, TIMING s ROLLER, GUIDE	0E1	A-6751-474-A s CASSETTE COMPARTMENT ASSY
923	3-171-459-01	S ROLLER, GUIDE	951 952	3-701-443-21 s WASHER
926	3-171-460-01	s ROLLER, SLIDER	953	3-701-441-11 s WASHER
927	3-171-461-01	O SHAFT, RETAINER, L CASSETTE	954	3-701-439-21 s WASHER
928		O HOLDER, SHAFT	955	1-640-170-13 O PRINTED CIRCUIT BOARD, CL-25
929	3-171-463-03	o PLATE		
930	3-171-464-01	o SPRING, LEAF	956	1-640-171-12 o PRINTED CIRCUIT BOARD, PC-62
			957	3-176-139-01 s SPRING, C GUIDE
931		o GEAR, DRIVING	958	1-640-172-11 o PRINTED CIRCUIT BOARD, LP-57
932		o GEAR, LIMITER	959	3-554-122-01 s SPRING, TENSION
933	3-171-477-02	Serial No. 10001 through 14965 (EK)	•	Serial No. 10001 through 12950
		Serial No. 10001 through 14505 (EK)		3-176-579-01 s SPRING, TENSION Serial No. 12951 and higher
	3-181-430-01			Serial No. 12331 and higher
	0 101 400 01	Serial No. 14966 and higher (EK)		
		Serial No. 10011 and higher (UC)		
934	3-171-478-01	o RUBBER, LIMITER		
		Serial No. 10001 through 14965 (EK)		
		Serial No. 10001 through 10010 (UC)	١	
	3-181-431-01	o RUBBER, LIMITER		
		Serial No. 14966 and higher (EK)		
025	9 171 470 01	Serial No. 10011 and higher (UC)		
935	3-111-419-01	o GEAR, MIDWAY		
936	3-171-480-01	o SHAFT, WORM WHEEL		
937		o HOLDER, LAMP		
938		s DOOR, CASSETTE		

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Cassette compartment assembly





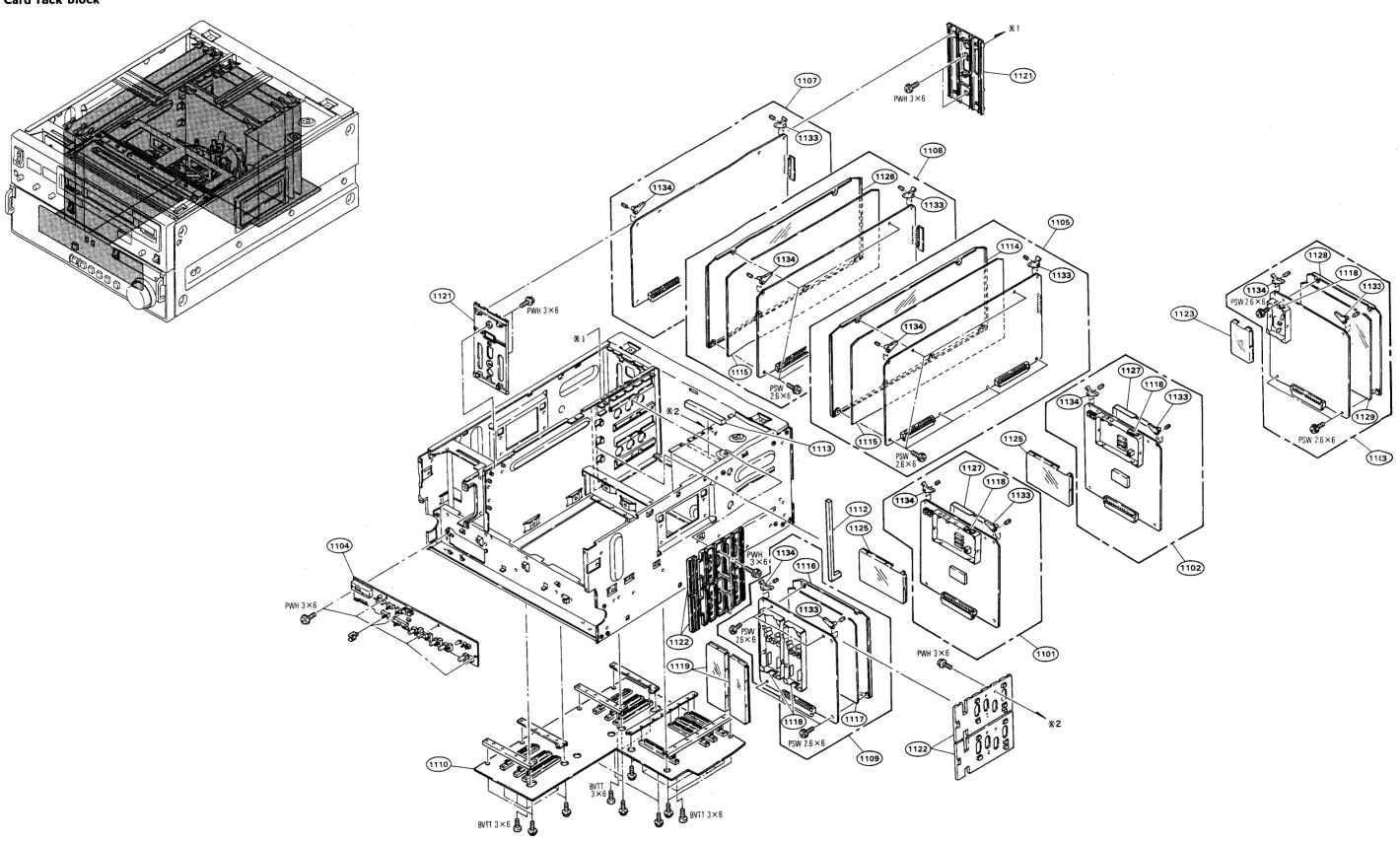
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18 - 24

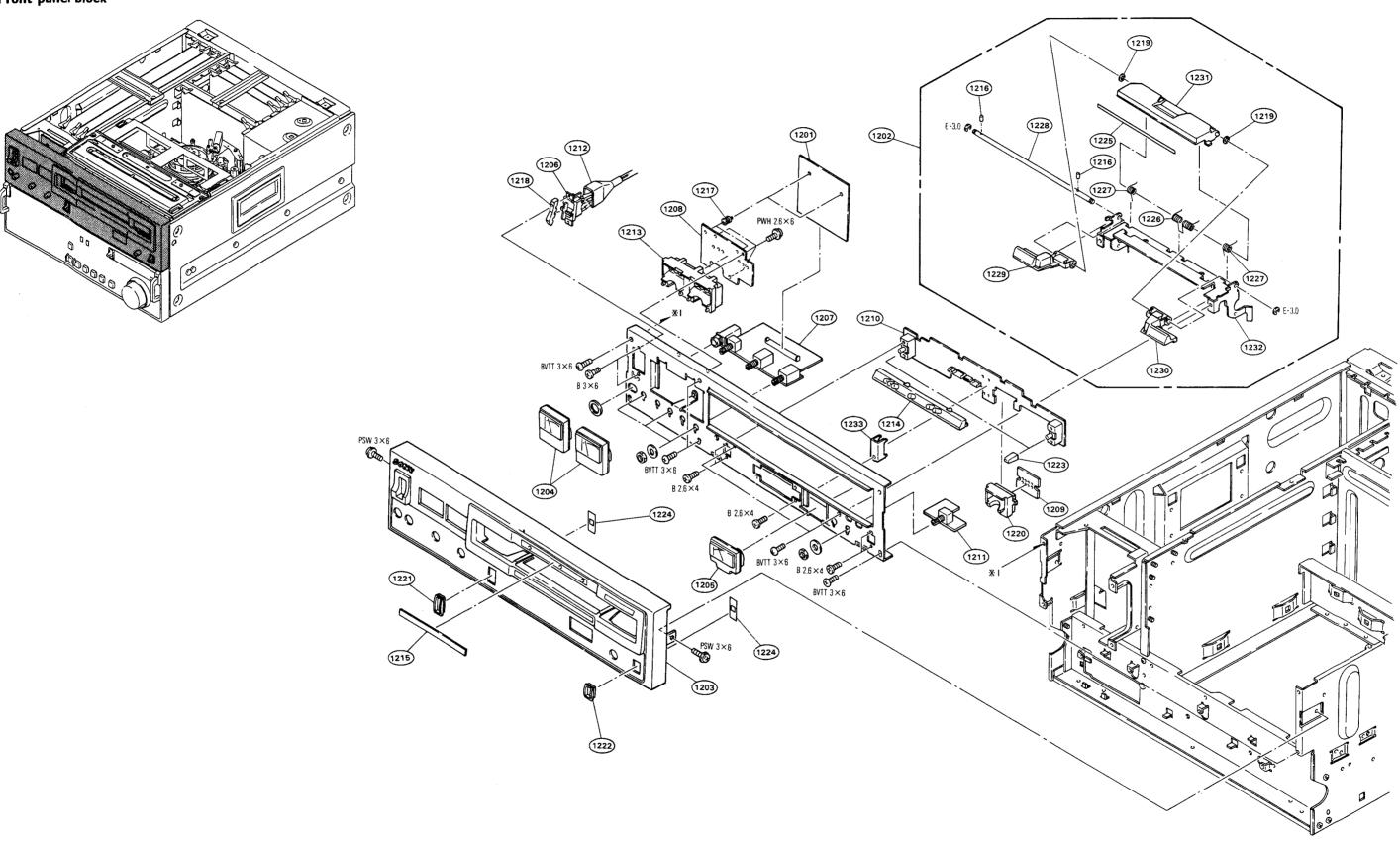
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Part No.
                   SP Description
No.
      A-6703-711-F o LID ASSY, UPPER
1001
      A-6771-428-A s STAY ASSY, CASSETTE COMPARTMENT
1002
      X-3166-071-1 s KNOB ASSY (B), VOL
1004
      X-3166-076-5 o HINGE (L) ASSY
1005
      X-3166-077-5 o HINGE (R) ASSY
1006
      X-3642-018-3 o HANDLE ASSY
1007
1008 ★1-413-675-12 s REGULATOR, SWITCHING
1009 3-171-368-01 o CUSHION
                       Serial No. 10001 through 11150 (EK)
       3-171-369-01 o LID (A), UPPER, AIR GUARD
1010
       3-171-377-02 o RETAINER (L), PC BOARD
1011
       3-171-408-01 o RETAINER (L), PC BOARD
1012
       3-171-409-01 o RETAINER (S), PC BOARD
1013
       3-171-410-01 o RETAINER (S), PC BOARD
1014
       3-171-411-01 o RETAINER (RP), PC BOARD
1015
       3-171-489-01 o BRACKET, PLATE, BOTTOM
1016
       3-717-393-03 o PLATE (LARGE), ORNAMENTAL, SW
1017
       3-171-533-01 o CABINET (RIGHT)
1018
       3-171-534-01 o CABINET (LEFT)
1019
       3-171-535-02 O PLATE, BOTTOM
3-171-536-01 O PLATE, ORNAMENTAL, HC
1020
 1021
       3-642-656-01 s FOOT
 1022
       3-688-102-01 o SPACER, M4
 1023
       3-717-306-01 o SPRING
 1024
       3-717-394-03 o PLATE (SMALL), ORNAMENTAL, SW
 1025
       3-174-264-01 s SCREW (+) (B4X8) (CU, NI)
 1026
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No.	Part No. SP Description
1101 1102 1103 1104 1105	A-6713-472-A O MOUNTED CIRCUIT BOARD, AU-148AP A-6713-473-A O MOUNTED CIRCUIT BOARD, AU-149AP A-6713-456-A O MOUNTED CIRCUIT BOARD, AU-150A A-6717-635-B O MOUNTED CIRCUIT BOARD, HC-14C A-6717-637-A O MOUNTED CIRCUIT BOARD, SS-48P
1107 1108 1109 1110	A-6727-374-B o MOUNTED CIRCUIT BOARD, VP-33AP A-6727-378-B o MOUNTED CIRCUIT BOARD, TBC-18P A-6727-375-A o MOUNTED CIRCUIT BOARD, RP-57AP A-6754-338-A o MOUNTED CIRCUIT BOARD, MB-322A Serial No. 10001 through 11680 (EK) A-8276-480-A o MOUNTED CIRCUIT BOARD, MB-322D Serial No. 11681 and higher (EK) Serial No. 10001 and higher (UC) 2-251-622-11 s LEVER, PC BOARD Serial No. 10001 through 14435 (EK)
1114	Serial No. 10001 through 10010 (UC) 3-171-413-01 o GUARD (M), AIR 3-171-414-02 o GUARD (SW), AIR 3-171-453-03 o PLATE (L), SHIELD, CARD 3-171-454-02 o SHEET (L), CARD
1122	3-171-485-02 o GUARD, EDGE 1-949-962-11 o HARNESS (RP SHIELD) 3-171-525-02 o GUIDE (L), PCB 3-171-527-01 o GUIDE (S), PCB
1123 1125 1126	X-3166-572-1 o PLATE (TBC) ASSY, SHIELD, CARD Serial No. 10001 through 10650 (EK) 3-171-453-03 o PLATE (L), SHIELD, CARD Serial No. 10651 and higher (EK) Serial No. 10001 and higher (UC)
	3-173-739-03 o SHIELD (B), AU 3-171-455-01 o PLATE (S), SHIELD, CARD Serial No. 10001 through 11150 (EK)
1129	3-171-456-02 s SHEET (S), CARD Serial No. 10001 through 11150 (EK)
1130	3-179-084-01 s LEVER (R), PC BOARD Serial No. 14436 and higher (EK) Serial No. 10011 and higher (UC)
1131	3-179-085-01 s LEVER (L), PC BOARD Serial No. 14436 and higher (EK) Serial No. 10011 and higher (UC)

Card rack block



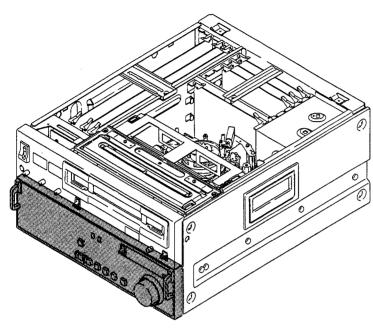
Front panel block

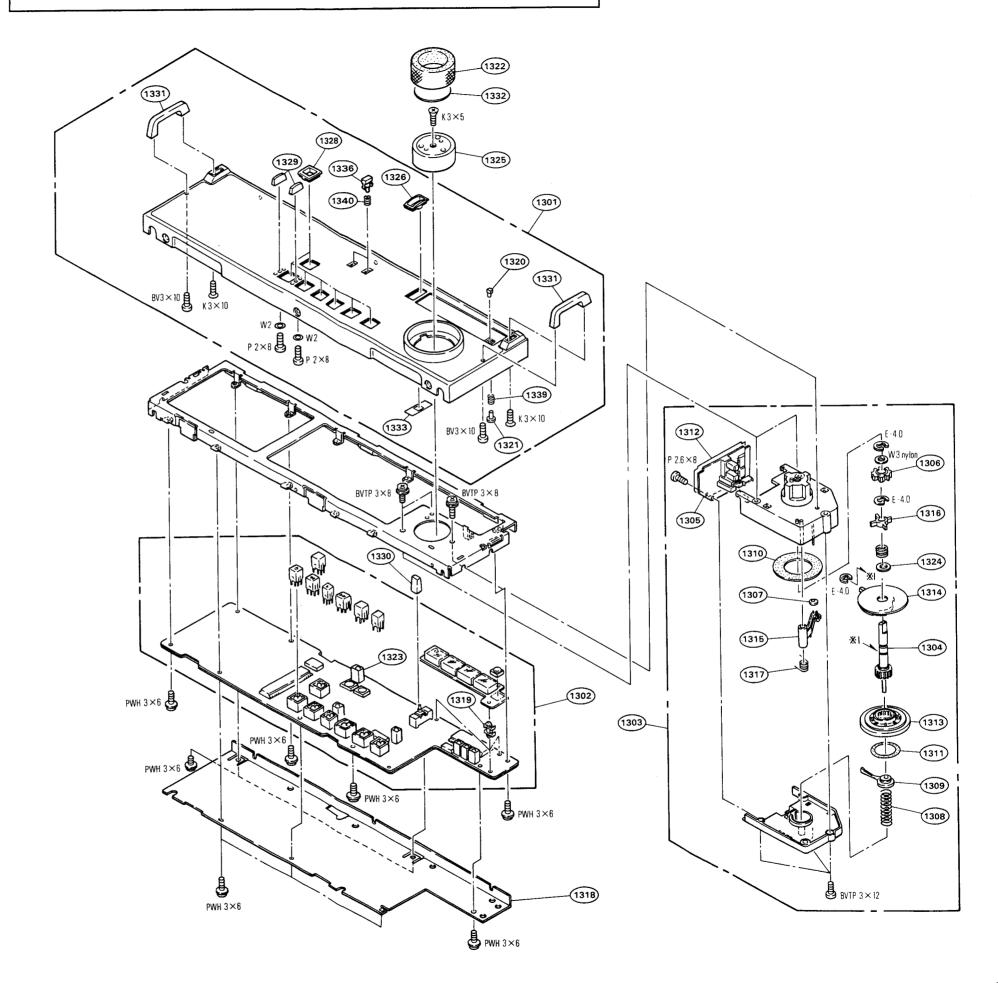


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SP Description
      Part No.
No.
      A-6713-450-A o MOUNTED CIRCUIT BOARD, MA-44A
      A-6751-377-G o GUIDE ASSY, SC
1202
      X-3166-045-2 o PANEL SUB ASSY, FRONT
1203
1204
      1-520-393-21 s METER, AUDIO LEVEL
      1-520-494-21 s METER, VIDEO LEVEL
1205
1206 ▲1-570-117-31 s SWITCH, ROCKER "POWER"
      1-640-039-21 o PRINTED CIRCUIT BOARD, VR-116A
       1-640-040-21 o PRINTED CIRCUIT BOARD, DP-138A
1208
       1-640-042-21 o PRINTED CIRCUIT BOARD, DP-159A
1209
       1-640-043-21 o PRINTED CIRCUIT BOARD, SW-444A
1210
       1-640-044-21 o PRINTED CIRCUIT BOARD, VR-117A
1211
      2-269-962-00 o COVER, SWITCH
1212
      3-171-415-01 o HOLDER, METER LED
1213
       3-171-416-01 o HOLDER, LED
1214
       3-171-291-11 o LABEL (P), MODEL
1215
       3-677-193-00 o PIN, STOPPER
1216
       3-682-419-11 o HOLDER, P.C.B
 1217
       3-688-814-01 s CAP, SWITCH
 1218
       3-701-441-21 s WASHER, POLY 4MM DIA., 0.50T
 1219
       3-717-323-01 o COVER, METER LED
 1220
       3-717-374-01 o FRAME (23X12), ORNAMENTAL, SW
 1221
       3-717-375-01 o FRAME (18X12), ORNAMENTAL, SW
 1222
       3-717-382-01 s KNOB, LEVER SW
 1223
       3-717-613-01 o PLATE, ORNAMENTAL, LSW
 1224
       3-717-614-01 o LABEL, C-LOCK OUT
 1225
        3-717-615-01 o SPRING
 1226
        3-717-616-01 o SPRING
 1227
        3-717-617-01 o SHAFT, SC GUIDE
 1228
        3-717-618-01 o GUIDE (LEFT), SC
 1229
       3-717-619-02 o GUIDE (RIGHT), SC
 1230
        3-717-620-01 o PLATE, OUT, C-LOCK
 1231
        3-717-621-03 o PLATE, INDICATION, SC GUIDE
 1232
        3-717-672-01 o STOPPER, KY
 1233
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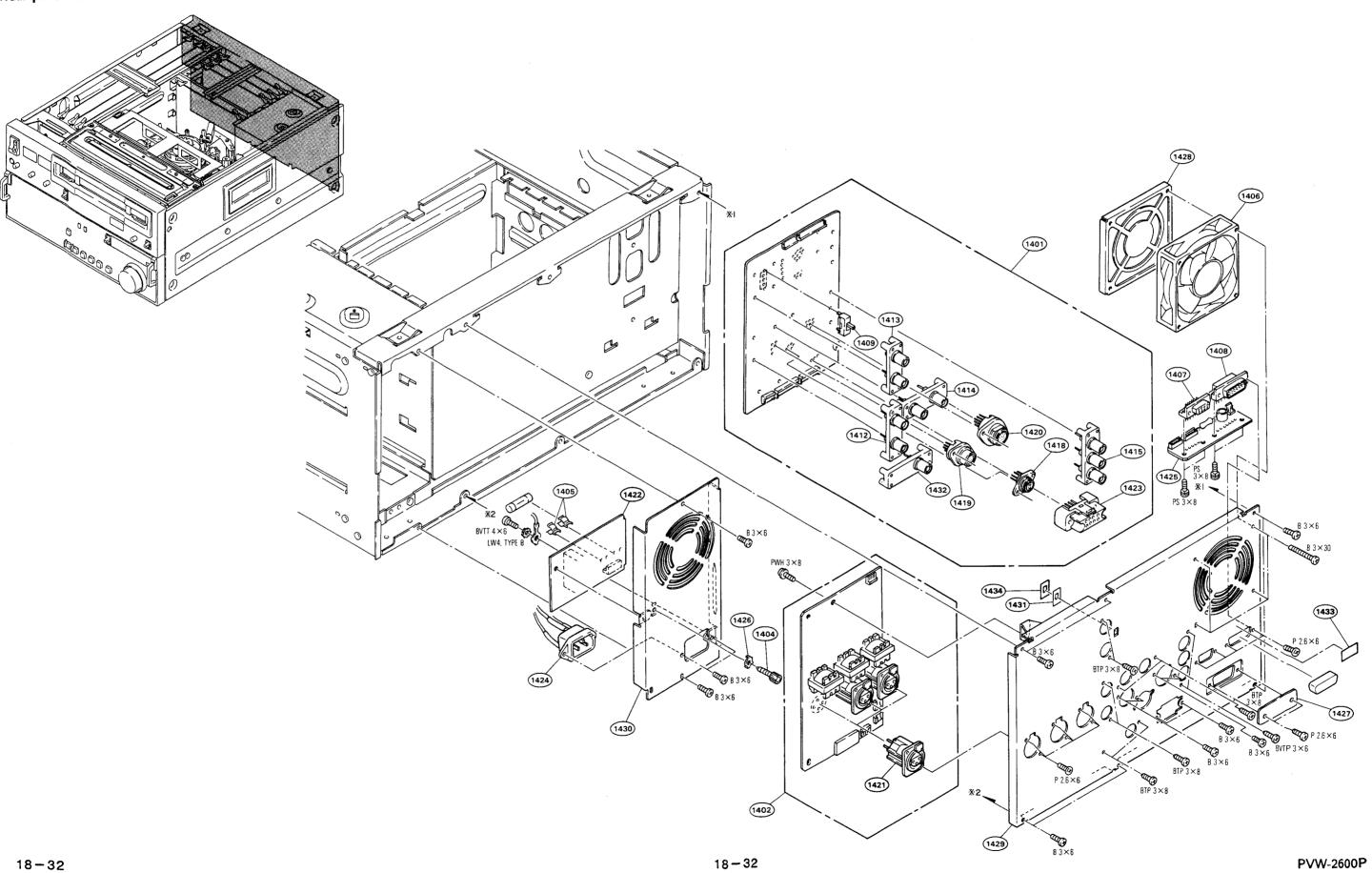
No.	Part No. SP D	Description
1303 1304	A-6734-253-A o E X-2124-627-1 o S	PANEL ASSY, KEY MOUNTED CIRCUIT BOARD, KY-210A DIAL BLOCK ASSY, SERCH SHAFT SUB ASSY, MAIN PRINTED CIRCUIT BOARD, PTC-39
1306 1307 1308 1309	2-124-690-01 o (GUIDE, LOCK IN ROLLER SPRING, COMPRESSION PLATE
1312 1313	2-124-695-01 o I 2-124-696-01 o I 2-143-601-01 s I 2-143-602-03 o Q 2-143-603-01 o I	PROTECTOR, PTC RING, FG
1318 1319	2-143-604-01 o 0 2-143-613-01 s 3 3-171-532-02 o 1 3-660-828-00 o 1 3-668-008-02 s 1	PROTECTOR, KY HOLDER (9), PC BOARD
1322 1323 1324	3-668-009-02 s l 3-668-012-00 s l 3-668-124-00 o l 3-701-443-21 s l 3-717-370-01 o l	RUBBER, DIAL KNOB HOLDER, LED WASHER, POLY 5MM DIA., 0.50T
1328 1329 1330	3-717-374-01 o : 3-717-377-01 o : 3-717-380-01 o : 3-717-382-01 s : 3-717-425-21 o :	FRAME (23X12), ORNAMENTAL, SW FRAME (SQUARE 17), ORNAMENTAL GUARD, REC KNOB, LEVER SW HANDLE
1333 1336 1339	3-718-681-01 s 3 4-309-349-00 s	PLATE, ORNAMENTAL, LSW

Function control panel block

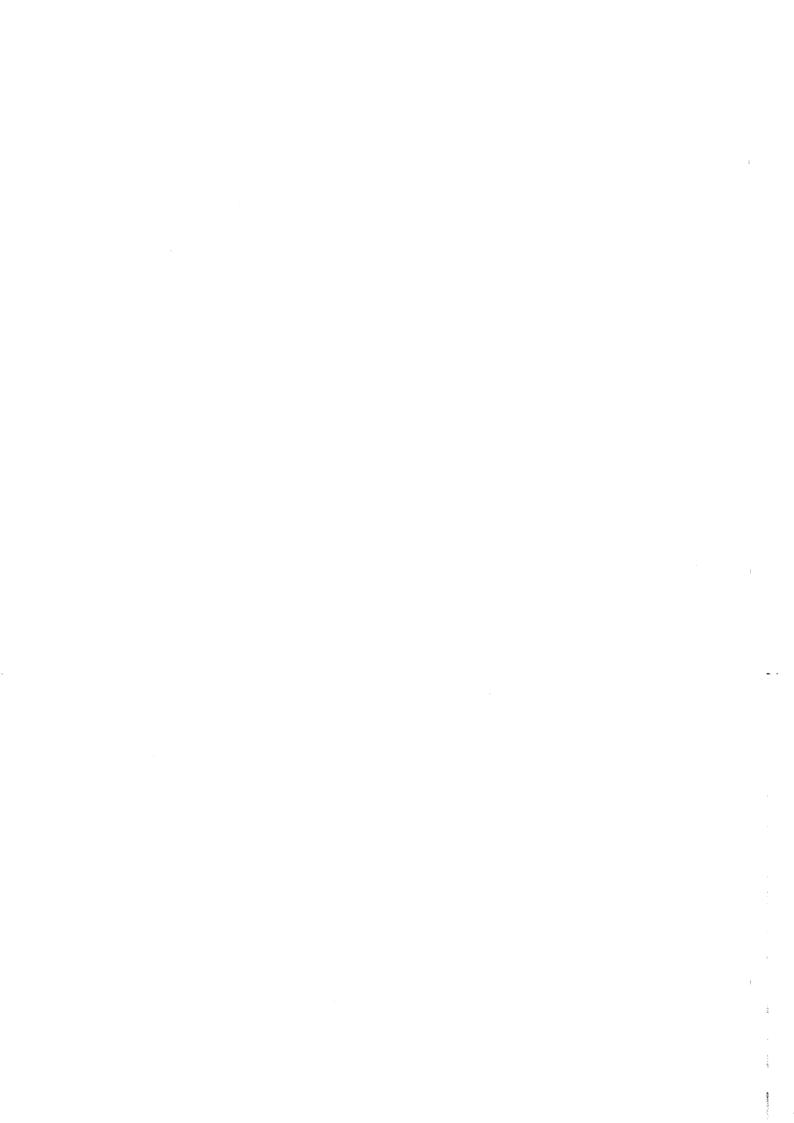








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SP Description
No.
      Part No.
      A-6713-451-A o MOUNTED CIRCUIT BOARD, CP-166A
1401
      A-6713-452-A o MOUNTED CIRCUIT BOARD, CP-167A
1402
      X-2068-004-0 s TERMINAL ASSY
1404
      1-533-189-11 o HOLDER, FUSE
1405
       1-541-431-31 s FAN, DC "FAN"
1406
       1-563-770-11 s CONNECTOR, D-SUB 9P, FEMALE
1407
                       Serial No. 10001 through 16135 (EK)
                       Serial No. 10001 through 10010 (UC)
       1-573-566-11 s CONNECTOR, D-SUB 9P, FEMALE
                       Serial No. 16136 and higher (EK)
                       Serial No. 10011 and higher (UC)
       1-566-319-11 o CONNECTOR, D-SUB 15P, FEMALE
1408
                       Serial No. 10001 through 16135 (EK)
                       Serial No. 10001 through 10010 (UC)
       1-764-259-11 o CONNECTOR, D-SUB 15P, FEMALE
                       Serial No. 16136 and higher (EK)
                       Serial No. 10011 and higher (UC)
       1-570-157-51 s SWITCH, SLIDE
1409
       1-573-580-11 s CONNECTOR, BNC FEMALE
1412
       1-573-581-11 s CONNECTOR, BNC FEMALE
1413
       1-573-582-11 s CONNECTOR, BNC FEMALE
1414
       1-573-584-11 s CONNECTOR, BNC FEMALE
1415
       1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE
1418
       1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMALE
1419
       1-573-592-11 s CONNECTOR, CIRCULAR 12P, FEMALE
 1420
       1-573-593-11 s CONNECTOR, XLR 3P, MALE
 1421
       1-641-145-12 o PRINTED CIRCUIT BOARD, AC-133
 1422
      1-573-602-11 s CONNECTOR, 8P(MONITOR), FEMALE
 1424 <u>↑</u>1-580-375-21 o INLET, AC 3P, MALE
       1-640-048-21 o PRINTED CIRCUIT BOARD, RM-93A
 1425
       2-068-008-00 s WASHER
 1426
       3-171-451-01 o PANEL, OP
 1427
       3-171-452-02 o COVER, FAN
 1428
       3-171-530-31 o PANEL, CONNECTOR
 1429
                       Serial No. 10001 through 13615 (EK)
        X-3166-889-2 o PANEL SUB ASSY, CONNECTOR
                       Serial No. 13616 and higher (EK)
                       Serial No. 10001 and higher (UC)
       3-171-531-01 o PANEL, POWER
 1430
                       Serial No. 10001 through 13615 (EK)
        X-3166-892-1 o PANEL SUB ASSY, POWER
                       Serial No. 13616 and higher (EK)
                       Serial No. 10001 and higher (UC)
        3-717-394-03 o PLATE (SMALL), ORNAMENTAL, SW
 1431
       1-573-583-11 s CONNECTOR, BNC FEMALE
 1432
        3-176-091-01 o LABEL (TBC REMOTE, ENGLISH)
 1433
       3-173-384-01 o SPACER, ORNAMENTAL PLATE
 1434
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18-3. ELECTRICAL PARTS LIST

18-3. ELECTRICAL PARTS LIST					
AC-133 BOARD	AU-148AP BOARD				
Ref. No. or Q'ty Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription				
1pc 1-641-145-13 o PRINTED CIRCUIT BOARD, AC-133 1-533-189-11 s HOLDER, FUSE 4-949-521-20 o LABEL (B) (T.H), FUSE RATING C1	lpc A-6713-472-A o MOUNTED CIRCUIT BOARD, AU-148AP lpc 3-171-456-02 o SHEET (S), CARD lpc 3-171-485-02 o GUARD, EDGE lpc 3-173-739-03 o SHIELD (B), AU lpc 7-621-759-45 s +PSW, 2.6X6				
C2	1pc 3-179-084-01 s LEVER (R), PC BOARD 1pc 3-179-085-01 s LEVER (L), PC BOARD				
C6	C105				
CN999 1-564-241-00 o CONNECTOR 4P, MALE F1	C111 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V C112 1-163-023-00 s CERAMIC, CHIP 0.015uF 10% 50V C113 1-126-101-11 s ELECT 100uF 20% 16V C114 1-124-907-11 s ELECT 10uF 20% 50V C115 1-164-232-11 s CERAMIC 0.01uF 10% 50V				
R1 ▲ 1-260-135-11 s CARBON 1M 5% 1/2W	C116				
	C121 1-164-232-11 s CERAMIC 0.01uF 10% 50V C122 1-164-232-11 s CERAMIC 0.01uF 10% 50V C123 1-130-487-00 s MYLAR 0.022uF 5% 50V C124 1-130-487-00 s MYLAR 0.022uF 5% 50V C125 1-164-232-11 s CERAMIC 0.01uF 10% 50V				
	C126				
	C131 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V C132 1-164-232-11 s CERAMIC 0.01uF 10% 50V C133 1-164-232-11 s CERAMIC 0.01uF 10% 50V C134 1-130-473-00 s MYLAR 0.0015uF 5% 50V C135 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V				
	C136				
	C202 1-130-483-00 s MYLAR 0.01uF 5% 507 C203 1-163-275-11 s CERAMIC, CHIP 0.00\uF 5% 50V C204 1-163-275-11 s CERAMIC, CHIP 0.00\uF 5% 50V C205 1-163-275-11 s CERAMIC, CHIP 0.00\uF 5% 50V C206 1-163-275-11 s CERAMIC, CHIP 0.00\uF 5% 50V				
	C207 $1-124-907-11$ s ELECT 10uF 20% 50V C208 $1-164-232-11$ s CERAMIC 0.01uF 10% 5 $\mathbb C$ V C209 $1-164-232-11$ s CERAMIC 0.01uF 10% 5 $\mathbb C$ V C210 $1-124-925-11$ s ELECT 2.2uF 20% 50V C213 $1-130-728-00$ s FILM 0.0022uF 2% $10^{\$}$				
	C214 1-130-728-00 s FILM 0.0022uF 2% 10√ C215 1-136-682-11 s FILM 0.0039uF 2% 10√ C216 1-131-345-00 s TANTALUM 0.47uF 101 35V C217 1-130-497-00 s MYLAR 0.15uF 5% 501 C218 1-130-738-00 s FILM 0.015uF 1% 10√				

C219

1-130-499-00 s MYLAR 0.22uF 5% 50%

(AU-148AF	BOARD,	(AU-148AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
C220 C221 C222 C223	1-164-344-11 s CERAMIC 0.068uF 10% 25V 1-130-765-00 s FILM 0.056uF 5% 100V 1-136-683-11 s FILM 0.0056uF 2% 100V 1-130-736-11 s FILM 0.01uF 5% 50V	IC207 IC503 IC504	8-759-982-03 s IC RC5532DD 8-759-708-05 s IC NJM78L05A 8-759-700-65 s IC NJM79L05A
C224	1-164-232-11 s CERAMIC 0.01uF 10% 50V	LV101	1-410-934-21 s COIL, VARIABLE 7.1uH
C225	1-164-232-11 s CERAMIC 0.01uF 10% 50V	Q105	8-729-109-44 s TRANSISTOR 2SK94
C226	1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	Q106	8-729-140-63 s TRANSISTOR 2SA1611-M5M6
C227	1-124-907-11 s ELECT 10uF 20% 50V	Q107	8-729-209-06 s TRANSISTOR 2SC4213-B
C228	1-130-478-00 s MYLAR 0.0039uF 5% 50V	Q108	8-729-209-06 s TRANSISTOR 2SC4213-B
C229	1-124-477-11 s ELECT 47uF 20% 16V	Q109	8-729-209-06 s TRANSISTOR 2SC4213-B
C230	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	Q110	8-729-209-06 s TRANSISTOR 2SC4213-B
C231	1-164-232-11 s CERAMIC 0.01uF 10% 50V	Q111	8-729-209-06 s TRANSISTOR 2SC4213-B
C232	1-164-232-11 s CERAMIC 0.01uF 10% 50V	Q112	8-729-209-06 s TRANSISTOR 2SC4213-B
C233	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	Q201	8-729-140-63 s TRANSISTOR 2SA1611-M5M6
C234	1-124-477-11 s ELECT 47uF 20% 16V	Q202	8-729-109-44 s TRANSISTOR 2SK94
C235	1-130-483-00 s MYLAR 0.01uF 5% 50V	Q205	8-729-203-30 s TRANSISTOR 2SJ106Y
C236	1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V	Q206	8-729-109-44 s TRANSISTOR 2SK94
C243	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	Q207	8-729-209-06 s TRANSISTOR 2SC4213-B
C244	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	Q208	8-729-209-06 s TRANSISTOR 2SC4213-B
C245	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	Q209	8-729-118-58 s TRANSISTOR 2SK852-X4
C246	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	Q210	8-729-140-63 s TRANSISTOR 2SA1611-M5M6
C247	1-130-478-00 s MYLAR 0.0039uF 5% 50V	Q211	8-729-118-58 s TRANSISTOR 2SK852-X4
C248	1-131-349-00 s TANTALUM 2.2uF 10% 16V	Q212	8-729-905-12 s TRANSISTOR DTA144EU
C249	1-131-349-00 s TANTALUM 2.2uF 10% 16V	Q501	8-729-140-98 s TRANSISTOR 2SD773
C336	1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V	Q502	8-729-140-93 s TRANSISTOR 2SB733
C504 C505 C506 C507 C508	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	Q503 Q504 Q505 Q506	8-729-140-93 s TRANSISTOR 2SB733 8-729-140-98 s TRANSISTOR 2SD773 8-729-140-93 s TRANSISTOR 2SB733 8-729-140-98 s TRANSISTOR 2SD773
C509	1-126-101-11 s ELECT 100uF 20% 16V	R110	1-216-009-00 s METAL, CHIP 22 5% 1/10W
C510	1-124-477-11 s ELECT 47uF 20% 16V	R111	1-249-393-11 s CARBON 10 5% 1/4W
C511	1-124-477-11 s ELECT 47uF 20% 16V	R113	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
C512	1-124-916-11 s ELECT 22uF 20% 50V	R114	1-216-097-00 s METAL, CHIP 10OK 5% 1/10W
C513	1-124-916-11 s ELECT 22uF 20% 50V	R116	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
CN2 CN111	1-506-468-11 s CONNECTOR 3P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE	R117 R118 R119 R120	1-216-105-00 s METAL, CHIP 220K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
D103	8-719-123-85 s DIODE 1SS304	R121	1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
D104	8-719-123-85 s DIODE 1SS304	R122	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
D201	8-719-941-23 s DIODE DA204U	R123	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
D202	8-719-941-23 s DIODE DA204U	R124	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
D204	8-719-941-23 s DIODE DA204U	R125	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
D207 D209 D501 D502 D503	8-719-941-23 s DIODE DA204U 8-719-123-85 s DIODE 1SS304 8-719-105-32 s DIODE RD2.7M-B2 8-719-105-32 s DIODE RD2.7M-B2 8-719-105-28 s DIODE RD2.4M-B	R126 R127 R128 R129	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
D504	8-719-105-28 s DIODE RD2.4M-B	R130 R131	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
IC101	8-759-701-25 s IC NJM2068D-D	R132	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
IC102	8-759-701-25 s IC NJM2068D-D	R133	
IC103	8-759-701-25 s IC NJM2068D-D	R134	
IC104	8-759-701-25 s IC NJM2068D-D	R135	
IC201	8-759-705-58 s IC NJM4558D-D	R136	
IC202	8-759-705-58 s IC NJM4558D-D	R137	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-215-473-00 s METAL 150K 1% 1/4W 1-208-812-11 s METAL 18K 0.5% 1/10W 1-215-471-00 s METAL 120K 1% 1/4W
IC203	8-759-705-58 s IC NJM4558D-D	R138	
IC204	8-752-018-80 s IC CX20188	R139	
IC205	8-759-981-96 s IC RC4560D	Ř140	
IC206	8-759-982-03 s IC RC5532DD	R142	

AC-149AP BOARD		(AU-149AP BOARD)	
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
lpc lpc lpc lpc lpc	A-6713-473-A o MOUNTED CIRCUIT BOARD, AU-149AP 3-171-456-02 o SHEET (S), CARD 3-171-485-02 o GUARD, EDGE 3-173-739-03 o SHIELD (B), AU 7-621-759-45 s +PSW, 2.6X6	C220 C221 C222 C223 C224	1-164-344-11 s CERAMIC 0.068uF 10% 25V 1-130-765-00 s FILM 0.056uF 5% 100V 1-136-683-11 s FILM 0.0056uF 2% 100V 1-130-736-11 s FILM 0.01uF 5% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V
lpc lpc	3-179-084-01 s LEVER (R), PC BOARD 3-179-085-01 s LEVER (L), PC BOARD	C225 C226 C227	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V 1-124-907-11 s ELECT 10uF 20% 50V
C105 C106 C107	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C228 C229 C230	1-130-478-00 s MYLAR 0.0039uF 5% 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
C108 C109	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C231 C232	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V
C111 C112 C113	1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-023-00 s CERAMIC, CHIP 0.015uF 10% 50V 1-126-101-11 s ELECT 100uF 20% 16V	C233 C234	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V 1-124-477-11 s ELECT 47uF 20% 16V
C114 C115	1-124-907-11 s ELECT 10uF 20% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C235 C236 C243	1-130-483-00 s MYLAR 0.01uF 5% 50V 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C116 C117 C118	1-130-481-00 s MYLAR 0.0068uF 5% 50V 1-124-916-11 s ELECT 22uF 20% 50V 1-124-916-11 s ELECT 22uF 20% 50V	C244 C245	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C119 C120	1-124-916-11 s ELECT 22uF 20% 50V 1-130-487-00 s MYLAR 0.022uF 5% 50V	C246 C247 C248	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-130-478-00 s MYLAR 0.0039uF 5% 50V 1-131-349-00 s TANTALUM 2.2uF 10% 16V
C121 C122 C123	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-130-487-00 s MYLAR 0.022uF 5% 50V	C249 C336	1-131-349-00 s TANTALUM 2.2uF 10% 16V 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V
C124 C125	1-130-487-00 s MYLAR 0.022uF 5% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C504 C505 C506	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C126 C127	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-130-487-00 s MYLAR 0.022uF 5% 50V	C507 C508	1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V
C128 C129 C130	1-130-487-00 s MYLAR 0.022uF 5% 50V 1-130-487-00 s MYLAR 0.022uF 5% 50V 1-130-487-00 s MYLAR 0.022uF 5% 50V	C509 C510	1-126-101-11 s ELECT 100uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V
C131 C132	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C511 C512 C513	1-124-477-11 s ELECT 47uF 20% 16V 1-124-916-11 s ELECT 22uF 20% 50V 1-124-916-11 s ELECT 22uF 20% 50V
C133 C134 C135	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-130-473-00 s MYLAR 0.0015uF 5% 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	CN2 CN110	1-564-002-41 s CONNECTOR 3P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE
C136 C137	1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	D103 D104	8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304
C138 C139 C201	1-124-907-11 s ELECT 10uF 20% 50V 1-164-182-11 s CERAMIC 0.0033uF 10% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D201 D202 D204	8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U
C202 C203	1-130-483-00 s MYLAR 0.01uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V	D207 D209	8-719-941-23 s DIODE DA204U 8-719-123-85 s DIODE 1SS304
C204 C205 C206	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V	D501 D502 D503	8-719-105-32 s DIODE RD2.7M-B2 8-719-105-32 s DIODE RD2.7M-B2 8-719-105-28 s DIODE RD2.4M-B
C207 C208	1-124-907-11 s ELECT 10uF 20% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	D504	8-719-105-28 s DIODE RD2.4M-B
C209 C210 C213	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-124-925-11 s ELECT 2.2uF 20% 50V 1-130-728-00 s FILM 0.0022uF 2% 100V	IC101 IC102 IC103	8-759-701-25 s IC NJM2068D-D 8-759-701-25 s IC NJM2068D-D 8-759-701-25 s IC NJM2068D-D
C214 C215	1-130-728-00 s FILM 0.0022uF 2% 100V 1-136-682-11 s FILM 0.0039uF 2% 100V	IC104 IC201	8-759-701-25 s IC NJM2068D-D 8-759-705-58 s IC NJM4558D-D
C216 C217 C218	1-131-345-00 s TANTALUM 0.47uF 10% 35V 1-130-497-00 s MYLAR 0.15uF 5% 50V 1-130-738-00 s FILM 0.015uF 1% 100V	IC202 IC203 IC204	8-759-705-58 s IC NJM4558D-D 8-759-705-58 s IC NJM4558D-D 8-752-018-80 s IC CX20188
C219	1-130-499-00 s MYLAR 0.22uF 5% 50V	IC205 IC206	8-759-981-96 s IC RC4560D 8-759-982-03 s IC RC5532DD

(AC-149AF	BOARD)	(AU-149AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
IC207 IC503 IC504	8-759-982-03 s IC RC5532DD 8-759-708-05 s IC NJM78L05A 8-759-700-65 s IC NJM79L05A 1-410-934-21 s COIL, VARIABLE7.1uH	R142 R143 R144 R145	1-215-471-00 s METAL 120K 1% 1/4W 1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W 1-215-459-00 s METAL 39K 1% 1/4W 1-215-484-00 s METAL 430K 1% 1/4W
LV101	1-410-934-21 s COIL, VARIABLE7.1uH	R146	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
Q105	8-729-109-44 s TRANSISTOR 2SK94	R147	1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-215-477-00 s METAL 220K 1% 1/4W 1-208-812-11 s METAL 18K 0.50% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q106	8-729-140-63 s TRANSISTOR 2SA1611-M5M6	R148	
Q107	8-729-209-06 s TRANSISTOR 2SC4213-B	R149	
Q108	8-729-209-06 s TRANSISTOR 2SC4213-B	R150	
Q109	8-729-209-06 s TRANSISTOR 2SC4213-B	R151	
Q110 Q111 Q112 Q201 Q202	8-729-209-06 s TRANSISTOR 2SC4213-B 8-729-209-06 s TRANSISTOR 2SC4213-B 8-729-209-06 s TRANSISTOR 2SC4213-B 8-729-140-63 s TRANSISTOR 2SC4213-B 8-729-140-63 s TRANSISTOR 2SA1611-M5M6 8-729-109-44 s TRANSISTOR 2SK94	R152 R153 R154 R155 R156	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q205	8-729-203-30 s TRANSISTOR 2SJ106Y	R157	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q206	8-729-109-44 s TRANSISTOR 2SK94	R158	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
Q207	8-729-209-06 s TRANSISTOR 2SC4213-B	R159	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q208	8-729-209-06 s TRANSISTOR 2SC4213-B	R161	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q209	8-729-118-58 s TRANSISTOR 2SK852-X4	R162	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
Q210	8-729-140-63 s TRANSISTOR 2SA1611-M5M6	R201	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
Q211	8-729-118-58 s TRANSISTOR 2SK852-X4	R202	1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
Q212	8-729-905-12 s TRANSISTOR DTA144EU	R203	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
Q501	8-729-140-98 s TRANSISTOR 2SD773	R204	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
Q502	8-729-140-93 s TRANSISTOR 2SB733	R205	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
Q503 Q504 Q505 Q506	8-729-140-93 \$ TRANSISTOR 2SB733 8-729-140-98 \$ TRANSISTOR 2SB733 8-729-140-98 \$ TRANSISTOR 2SD773 8-729-140-93 \$ TRANSISTOR 2SB733 8-729-140-98 \$ TRANSISTOR 2SD773 1-216-009-00 \$ METAL, CHIP 22 5% 1/10W 1-249-393-11 \$ CARBON 10 5% 1/4W 1-216-007-00 \$ METAL, CHIP 100% 5% 1/10W	R208 R209 R210 R211 R212	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-622-11 s METAL, CHIP 62 0.5% 1/10W 1-216-622-11 s METAL, CHIP 62 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W
R110	1-216-009-00 s METAL, CHIP 22 5% 1/10W	R213	1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W 1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W
R111	1-249-393-11 s CARBON 10 5% 1/4W	R214	
R113	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R215	
R114	1-216-097-00 s METAL, CHIP 10OK 5% 1/10W	R216	
R116	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	R217	
R117	1-216-105-00 s METAL, CHIP 220K 5% 1/10W	R218	1-208-785-11 s METAL 1.3K 0.5% 1/10W
R118	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	R219	1-215-493-00 s METAL 1M 1% 1/4W
R119	1-216-625-11 s METAL, CHIP 82 0.5% 1/10W	R220	1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W
R120	1-216-121-00 s METAL, CHIP 1M 5% 1/10W	R221	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R121	1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W	R222	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R122	1-216-097-00 s METAL, CHIP 100K 5% 1/10W	R223	1-216-081-00 s METAL, CHIP 22K 5% 1/1OW 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/1OW 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
R123	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R224	
R124	1-216-121-00 s METAL, CHIP 1M 5% 1/10W	R225	
R125	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R226	
R126	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R227	
R127	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W	R228	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-208-789-11 s METAL 2K 0.50% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
R128	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R229	
R129	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R230	
R130	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R231	
R131	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R232	
R132	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R233	1-216-121-00 s METAL, CHIP 1M 5% 1/DW 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-208-803-11 s METAL 7.5K 0.5% 1/10W 1-216-045-00 s METAL, CHIP 680 5% 1/10W 1-216-674-11 s METAL, CHIP 9.1K 0.5% 1/10W
R133	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R234	
R134	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R235	
R135	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R236	
R136	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W	R237	
R137 R138 R139 R140 R141	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-215-473-00 s METAL 150K 1% 1/4W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-215-477-00 s METAL 220K 1% 1/4W	R238 R239 R240 R241	1-208-812-11 s METAL 18K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1AOW 1-216-081-00 s METAL, CHIP 22K 5% 1AOW 1-216-009-00 s METAL, CHIP 22 5% 1/10W

(AC-149A)	P BOARD)	ĀU-150A I	BOARD
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
R243 R244 R245 R246 R247	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W	lpc lpc lpc lpc	A-6713-456-A o MOUNTED CIRCUIT, BOARD, AU-150A 3-171-485-02 o GUARD, EDGE 3-179-084-01 s LEVER (R), PC BOARD 3-179-085-01 s LEVER (L), PC BOARD
R248 R249 R250 R251 R252	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W	C6 C7 C10 C11 C202	1-126-101-11 s ELECT 100uF 20% 16V 1-130-489-00 s MYLAR 0.033uF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
R256 R262 R263 R264 R265	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	C203 C204 C501 C502 C503	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V
R265 R266 R267 R268	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W	C510 C511 C512	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V
R269 R270	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W	CN1 CN109	1-564-002-11 s CONNECTOR 3P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE
R271 R272	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W	D2 D3	8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U
R274 R275 R276	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	IC4 IC202 IC203	8-759-153-69 s IC UPC4572C 8-757-991-00 s IC CX7991 8-757-991-00 s IC CX7991
R277 R279 R280 R281	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	L501 L502	1-410-470-11 s INDUCTOR 10uH 1-410-470-11 s INDUCTOR 10uH
R282 R283 R284 R285	1-216-009-00 s METAL, CHIP 10K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-073-00 s METAL, CHIP 1M 5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W	Q201 Q203 Q204 Q205 Q207	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-143-07 s TRANSISTOR 2SA1610-YY33 8-729-143-07 s TRANSISTOR 2SA1610-YY33
R288 R501 R502 R503 R504	1-249-411-11 s CARBON 330 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W 1-216-031-00 s METAL, CHIP 180 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	Q208 Q209 Q210 Q214 Q215	8-729-143-07 s TRANSISTOR 2SA1610-YY33 8-729-117-32 s TRANSISTOR 2SC4177 8-729-140-63 s TRANSISTOR 2SA1611-M5M6 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-12 s TRANSISTOR DTA144EU
R505 R506 R507 R508 R509	1-216-035-00 s METAL, CHIP 270 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	Q216 Q217 Q218 Q221 Q222	8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-12 s TRANSISTOR DTA144EU 8-729-905-18 s TRANSISTOR DTC144EU
R510 R511 R512 R513 R514	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-065-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R12 R13 R15 R16 R17	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
RV101 RV102 RV103 RV104 RV105	1-238-791-11 s RES, ADJ, CERMET 200K 1-238-786-11 s RES, ADJ, CERMET 5K 1-238-786-11 s RES, ADJ, CERMET 5K 1-238-788-11 s RES, ADJ, CERMET 5K 1-238-801-11 s RES, ADJ, CERMET 5K	R22 R24 R27 R28 R32	1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-053-00 s METAL, CHIP 1.5K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
RV106 RV201 RV203 RV204	1-238-788-11 s RES, ADJ, CERMET 20K 1-238-801-11 s RES, ADJ, CERMET 5K 1-238-805-11 s RES, ADJ, CERMET 100K 1-238-805-11 s RES, ADJ, CERMET 100K	R33 R44 R201 R202 R203	1-216-603-11 s METAL, CHIP 10 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
SW101	1-570-598-11 s SWITCH, DIP		

(AU-150A BOARD)

Ref. No. or Q'ty	Part No. SPDescription
R204 R205 R207 R208 R209	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R211 R212 R213 R215 R216	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R220 R222 R223 R224 R225	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R226 R227 R228 R229 R230	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R231	1-216-089-00 s METAL, CHIP 47K 5% 1/10W

CL-25 BOARD

D C N	
Ref. No. or Q'ty	Part No. SPDescription
lpc lpc	1-640-170-13 o PRINTED CIRCUIT BOARD, CL-25 3-171-424-01 o HOLDER, SENSOR
C1	1-161-051-00 s CERAMIC 0.01uF 10% 50V
CN933	1-564-011-11 o CONNECTOR 12P, MALE 1-564-001-11 o CONNECTOR 2P, MALE 1-573-599-11 s CONNECTOR 5P, FEMALE 1-564-001-11 o CONNECTOR 2P, MALE
D1 D2	8-719-938-07 s LED GL480, INFRARED 8-719-938-07 s LED GL480, INFRARED
Q1 Q2	8-729-903-81 s PHOTO TRANSISTOR PT480 8-729-903-81 s PHOTO TRANSISTOR PT480
R1 R2	1-247-825-31 s CARBON 560 5% 1/4W 1-247-825-31 s CARBON 560 5% 1/4W

CP-166A BOARD		CP-167A BOARD	
Ref. No.	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
1pc	A-6713-451-A o MOUNTED CIRCUIT BOARD, CP-166A	1pc	A-6713-452-A o MOUNTED CIRCUIT BOARD, CP-167A
C1	1-126-101-11 s ELECT 100uF 20% 16V	C101	1-124-907-11 s ELECT 10uF 20% 50V
C3	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C102	1-124-910-11 s ELECT 47uF 20% 50V
C4	1-126-101-11 s ELECT 100uF 20% 16V	C103	1-124-473-11 s ELECT 1000uF 20% 10V
C7	1-126-101-11 s ELECT 100uF 20% 16V	C104	1-124-907-11 s ELECT 10uF 20% 50V
C8	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C105	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
C9	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C106	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
C10	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C107	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C11	1-126-101-11 s ELECT 100uF 20% 16V	C108	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C12	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C109	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V
C13	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	C111	1-124-473-11 s ELECT 1000uF 20% 10V
C14	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-2000-2000-2000-2000-2000-2000-2000-20	C112	1-163-038-00 s CERAMIC, CHIP 0.1uF 25V
C15		C201	1-124-907-11 s ELECT 10uF 20% 50V
C16		C202	1-124-910-11 s ELECT 47uF 20% 50V
C17		C203	1-124-473-11 s ELECT 1000uF 20% 10V
C18		C204	1-124-907-11 s ELECT 10uF 20% 50V
CN1	1-573-581-11 s CONNECTOR, BNC, FEMALE	C205	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
CN6	1-573-583-11 s CONNECTOR, BNC, FEMALE	C206	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V
CN7	1-573-580-11 s CONNECTOR, BNC, FEMALE	C207	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
CN8	1-573-582-11 s CONNECTOR, BNC, FEMALE	C208	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
CN9	1-573-590-12 s CONNECTOR, CIRCULAR 4P, FEMALE	C209	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V
CN11	1-573-592-11 s CONNECTOR, CIRCULAR 12P, FEMALE	C210	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
CN12	1-573-591-11 s CONNECTOR, CIRCULAR 7P, FEMALE	C211	1-124-473-11 s ELECT 1000uF 20% 10V
CN13	1-573-602-11 s CONNECTOR 8P (MONITOR), FEMALE	C212	1-163-038-00 s CERAMIC, CHIP 0.1uF 25V
CN650	1-506-490-21 s CONNECTOR 11P, MALE	C302	1-124-473-11 s ELECT 1000uF 20% 10V
CN652	1-506-481-11 s CONNECTOR 2P, MALE	C303	1-124-907-11 s ELECT 10uF 20% 50V
CN653 CN654 CN655	1-506-489-11 s CONNECTOR 10P, MALE 1-506-493-11 s CONNECTOR 14P, MALE 1-564-014-11 s CONNECTOR 4P, MALE	C304 C305 C306 C307	1-124-473-11 s ELECT 1000uF 20% 10V 1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-473-11 s ELECT 1000uF 20% 10V
FL4	1-236-129-11 s ENCAPSULATED COMPONENT	C308	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
FL5	1-236-129-11 s ENCAPSULATED COMPONENT	C309	
IC1 IC2 IC3 IC4	8-752-052-73 s IC CXA1451M 8-752-052-73 s IC CXA1451M 8-752-052-73 s IC CXA1451M 8-759-701-75 s IC NJM7805FA	C309 C311 C312 C313 C314	1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
L1	1-410-482-31 s INDUCTOR 100uH	C315	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V
L2	1-410-482-31 s INDUCTOR 100uH	C316	1-124-473-11 s ELECT 1000uF 20% 10V
Q1	8-729-117-32 s TRANSISTOR 2SC4177	C317 C318 C319	1-124-907-11 s ELECT 10uF 20% 50V 1-163-038-00 s CERAMIC, CHIP 0.1uF 25V 1-163-038-00 s CERAMIC, CHIP 0.1uF 25V
R1	1-216-009-00 s METAL, CHIP 22 5% 1/10W	C320	1-124-473-11 s ELECT 1000uF 20% 10V
R2	1-216-077-00 s METAL, CHIP 15K 5% 1/10W	C321	1-124-473-11 s ELECT 1000uF 20% 10V
R3	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	C501	1-124-925-11 s ELECT 2.2uF 20% 50V
R4	1-216-045-00 s METAL, CHIP 680 5% 1/10W	C502	1-124-907-11 s ELECT 10uF 20% 50V
R10	1-216-009-00 s METAL, CHIP 22 5% 1/10W	C503	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
R11 R12 R13 R14 R15	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	C504 C505 C506 C507	1-124-925-11 s ELECT 2.2uF 20% 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-907-11 s ELECT 10uF 20% 50V
R16	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	CN601	1-506-481-11 s CONNECTOR 2P, MALE
R17	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	CN602	1-506-485-11 s CONNECTOR 6P, MALE
R18	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	CN603	1-506-484-11 s CONNECTOR 5P, MALE
R19	1-216-624-11 s METAL, CHIP 75 0.5% 1/10W	CN607	1-573-593-11 s CONNECTOR, XLR 3P, MALE
R20	1-216-625-11 s METAL, CHIP 82 0.5% 1/10W	CN608	1-573-593-11 s CONNECTOR, XLR 3P, MALE
S1	1-570-157-51 s SWITCH, SLIDE	CN609	1-573-593-11 s CONNECTOR, XLR 3P, MALE
		D101	8-719-941-23 s DIODE DA204U

(CP-167A	BOARD)	(CP-167A	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
D102 D103 D201 D301 D302	8-719-123-82 s DIODE 1SS303 8-719-123-82 s DIODE 1SS303 8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U 8-719-123-82 s DIODE 1SS303	R130 R132 R201 R202 R203	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-247-807-31 s CARBON 100 5% 1/4W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-399-00 s METAL, CHIP 6.8 5% 3W
D303 D304 D305	8-719-123-82 s DIODE 1SS303 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304	R204 R205 R206 R207	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W
IC101 IC102 IC201 IC302 IC501	8-759-745-64 s IC NJM4560M 8-759-745-64 s IC NJM4560M 8-759-745-64 s IC NJM4560M 8-759-745-64 s IC NJM4560M 8-759-701-59 s IC NJM7809FA	R208 R209 R210 R211 R212	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-399-00 s METAL, CHIP 6.8 5% 3W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-629-11 s METAL, CHIP 120 0.5% 1/10W 1-208-785-11 s METAL 1.3K 0.5% 1/10W
IC502 IC503	8-759-701-87 s IC NJM7909FA 8-759-603-69 s IC M51957BL	R213	1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W
Q102 Q103 Q104 Q105 Q202	8-729-180-93 s TRANSISTOR 2SD809-F 8-729-173-13 s TRANSISTOR 2SB731-F 8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132 8-729-180-93 s TRANSISTOR 2SD809-F	R215 R216 R217 R219	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
Q203 Q204 Q205 Q302 Q303	8-759-603-69 s IC M51957BL 8-729-180-93 s TRANSISTOR 2SD809-F 8-729-173-13 s TRANSISTOR 2SB731-F 8-729-143-63 s TRANSISTOR 2SJ132 8-729-180-93 s TRANSISTOR 2SJ132 8-729-173-13 s TRANSISTOR 2SD809-F 8-729-143-63 s TRANSISTOR 2SB731-F 8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132 8-729-180-93 s TRANSISTOR 2SJ132 8-729-180-93 s TRANSISTOR 2SD809-F 8-729-173-13 s TRANSISTOR 2SB731-F	R220 R222 R223 R224 R226	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-247-807-31 s CARBON 100 5% 1/4W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-674-11 s METAL, CHIP 9.1K 0.5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
Q304 Q305 Q306 Q307 Q308	8-729-140-63 s TRANSISTOR 2SA1611-M5M6 8-729-140-63 s TRANSISTOR 2SA1611-M5M6 8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132	R229 R230 R231 R232 R301	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-249-389-11 s CARBON 4.7 5% 1/4W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-247-807-31 s CARBON 100 5% 1/4W
Q309 Q310 Q311	8-729-118-58 s TRANSISTOR 2SK852-X4 8-729-118-58 s TRANSISTOR 2SK852-X4 8-729-143-63 s TRANSISTOR 2SJ132	R302 R303 R304 R305 R306	1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 100K 0.5% 1/10W 1-216-399-00 s METAL, CHIP 6.8 5% 3W 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R101 R102 R103 R104 R105	1-247-807-31 s CARBON 100 5% 1/4W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-399-00 s METAL, CHIP 6.8 5% 3W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W		1-216-399-00 s METAL, CHIP 6.8 5% 3W 1-216-025-00 s METAL, CHIP 100 5% 1/1 OW 1-216-067-00 s METAL, CHIP 5.6K 5% 1/1 OW 1-216-073-00 s METAL, CHIP 10K 5% 1/1 OW 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
R106 R107 R108 R109 R110	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-399-00 s METAL, CHIP 10K 5.5% 3W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	R312 R313 R314 R315 R316	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/1 OW 1-247-807-31 s CARBON 100 5% 1/4W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R111 R112 R113 R114 R115	1-216-629-11 s METAL, CHIP 120 0.5% 1/10W 1-208-785-11 s METAL 1.3K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W	R317 R318 R319 R320 R321	1-216-073-00 s METAL, CHIP 10K 5% 1/1 OW 1-216-073-00 s METAL, CHIP 10K 5% 1/1 OW 1-216-097-00 s METAL, CHIP 100K 5% / 10W 1-216-097-00 s METAL, CHIP 100K 5% / 10W 1-216-073-00 s METAL, CHIP 10K 5% 1/1 OW
R116 R117 R119 R120 R121	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-249-389-11 s CARBON 4.7 5% 1/4W	R322 R323 R324 R326 R327	1-216-699-11 s METAL, CHIP 100K 0.5\ 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-249-389-11 s CARBON 4.7 5% 1/4W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5\ 1/10W
R122 R123 R124 R126 R129	1-247-807-31 s CARBON 100 5% 1/4W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-674-11 s METAL, CHIP 9.1K 0.5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W	R331 R332 R333 R334	1-216-295-00 s METAL, CHIP 0 5% 1/16W 1-216-295-00 s METAL, CHIP 0 5% 1/16W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

(CP-167A BOARD)

Ref. No. or Q'ty	Part No. SPDescription
R335 R336 R337 R338 R501	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R502 R503	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W
T101 T201 T301	1-427-586-11 s TRANSFORMER, INPUT/OUTPUT 1-427-586-11 s TRANSFORMER, INPUT/OUTPUT 1-427-586-11 s TRANSFORMER, INPUT/OUTPUT

DP-138A	BOARD

Ref. No. or Q'ty	Part No. SPDescription
lpc lpc	1-640-040-21 o PRINTED CIRCUIT BOARD, DP-138A 3-171-415-01 o HOLDER, METER LED
C1	1-163-033-00 s CERAMIC 0.022uF 50V
CN490	1-506-481-11 o CONNECTOR 2P, MALE
D3 D4	8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL
D6 D7 D8	8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL
R2	1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W

DP-139A BOARD

All of component parts on the DP-139A board are supplied together when you order KY-210A board. D1060 8-719-942-19 s LED LB402VK, RED D1061 8-719-942-19 s LED LB402VK, RED D1062 8-719-942-19 s LED LB402VK, RED D1063 8-719-942-19 s LED LB402VK, RED D1060 8-719-942-19 s LED LB402VK, RED S1037 1-552-539-00 s SWITCH, TACTILE	Ref. No. or Q'ty	Part No. SPDescription
D1061 8-719-942-19 s LED LB402VK, RED D1062 8-719-942-19 s LED LB402VK, RED D1063 8-719-942-19 s LED LB402VK, RED D1060 8-719-942-19 s LED LB402VK, RED	All of co	omponent parts on the DP-139A board are together when you order KY-210A board.
S1037 1-552-539-00 s SWITCH, TACTILE	D1061 D1062 D1063	8-719-942-19 s LED LB402VK, RED 8-719-942-19 s LED LB402VK, RED 8-719-942-19 s LED LB402VK, RED
	S1037	1-552-539-00 s SWITCH, TACTILE

DP-159A BOARD

Ref. No. or Q'ty	Part No. SPDescription
lpc lpc	1-640-042-21 o PRINTED CIRCUIT BOARD, DP-159A 3-717-323-01 o COVER, METER LED
C1	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
CN514	1-506-481-11 o CONNECTOR (LIGHT ANGLE) 2P, MALE
D1 D2 D3 D4	8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL 8-719-820-27 s LED TLY256, YEL
R1 R2	1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W

DR-232A BOARD			BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
lpc lpc lpc lpc lpc	A-8271-718-A o MOUNTED CIRCUIT BOARD, DR-232A 3-171-393-01 o SUPPORT, DR 3-701-822-01 o HOLDER, WIRE 7-682-903-11 s SCREW +PWH 3X6 3-176-491-01 o HEAT SINK (2), DR	C302 C303 C304 C305 C306	1-164-161-11 s CERAMIC 0.0022uF 10% 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V 1-124-903-11 s ELECT 1uF 20% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-164-344-11 s CERAMIC 0.068uF 10% 25V
2pcs 1pc 3pcs 1pc 1pc	7-621-759-45 s +PSW, 2.6X6 3-660-978-11 s SHEET, HEAT RESISTING 7-682-903-11 s SCREW +PWH 3X6 3-171-493-02 o HEAT SINK (A) 3-176-490-01 o HEAT SINK (1), DR	C307 C308 C309 C315 C316	1-164-344-11 s CERAMIC 0.068uF 10% 25V 1-164-344-11 s CERAMIC 0.068uF 10% 25V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-126-233-11 s ELECT 22uF 20% 25V 1-124-903-11 s ELECT 1uF 20% 50V
4pcs 3pcs 4pcs 3pcs 4pcs	4-911-232-01 s SHEET, INSULATING 3-660-978-11 s SHEET, HEAT RESISTING 7-682-549-09 s SCREW +B 3X10 2-371-561-00 s BUSHING (P), INSULATING 7-682-549-09 s SCREW +B 3X10	C322 C323 C330 C401 C402	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-124-120-11 s ELECT 220uF 20% 25V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
1pc	1-535-894-11 o TAB (PC BOARD)	C403 C404	1-131-388-00 s TANTALUM 68uF 10% 6.3V 1-131-388-00 s TANTALUM 68uF 10% 6.3V
C1 C40 C51	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C405 C406 C407	1-124-907-11 s ELECT 10uF 20% 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-126-233-11 s ELECT 22uF 20% 25V
C52 C53 C101	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C408 C409 C410	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-989-11 s CERAMIC, CHIP 0.033uF 10% 25V
C103 C104 C108	1-124-478-11 s ELECT 100uF 20% 25V 1-124-907-11 s ELECT 10uF 20% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C410 C451 C452	1-130-728-00 s FILM 0.0022uF 5% 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V
C111	1-124-907-11 s ELECT 10uF 20% 50V	C453 C454 C455	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 16V
C121 C151 C152 C153	1-124-907-11 s ELECT 10uF 20% 50V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C481 C482	1-130-728-00 s FILM 0.0022uF 5% 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V
C154 C155	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C483 C484 C485	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-163-809-11 s CERAMIC, CHIP 0.047\F 10% 25V 1-124-477-11 s ELECT 47\F 20% 16V
C201 C204 C205	1-126-233-11 s ELECT 22uF 20% 25V 1-163-986-00 s CERAMIC, CHIP 0.027uF 10% 25V 1-163-986-00 s CERAMIC, CHIP 0.027uF 10% 25V	C501 C502	1-124-907-11 s ELECT 10uF 20% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V
C206	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	C503 C504 C505	1-163-986-00 s CERAMIC, CHIP 0.027 10% 25V 1-163-243-11 s CERAMIC, CHIP 47PF % 50V 1-163-243-11 s CERAMIC, CHIP 47PF % 50V
C208 C209 C210	1-163-986-00 s CERAMIC, CHIP 0.027uF 10% 25V 1-163-986-00 s CERAMIC, CHIP 0.027uF 10% 25V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	C510 C511	1-163-033-00 s CERAMIC, CHIP 0.022\F 50V 1-163-033-00 s CERAMIC, CHIP 0.022\F 50V
C212 C213	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	C551 C552	1-126-101-11 s ELECT 100uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50 V
C221 C222 C251	1-124-477-11 s ELECT 47uF 20% 25V 1-124-477-11 s ELECT 47uF 20% 25V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	C553 C554 C555	1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C252 C253	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C556 C557	1-163-809-11 s CERAMIC, CHIP 0.047 10% 25V 1-164-004-11 s CERAMIC 0.1 uF 10% 25V
C257 C261	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	C558 C559	1-130-477-00 s FILM 0.0033uF 5% 50% 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C267 C271 C272	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C560 C561	1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C273 C277	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V	C562 C563 C564	1-163-809-11 s CERAMIC, CHIP 0.0474 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.0224 50V 1-163-033-00 s CERAMIC, CHIP 0.0224 50V
C281 C282 C283	1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C565 C583	1-163-275-11 s CERAMIC, CHIP 0.001 5% 50V 1-163-809-11 s CERAMIC, CHIP 0.047 10% 25V
C287	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-124-482-11 s ELECT 33uF 20% 25V	C584 C585 C586	1-164-004-11 s CERAMIC 0.1uF 10% 257 1-130-477-00 s FILM 0.0033uF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C301	1-174-407-11 2 PPPO1 20m, 70% 704	0000	1 200 201 11 0 021am10, Oill 10011 y/w 001

(DR-232A	BOARD)		(DR-232A	BOARD)
Ref. No. or Q'ty	Part No.	SPDescription	Ref. No. or Q'ty	Part No. SPDescription
C587 C590 C591 C592 C601	1-163-809-11 1-163-275-11 1-163-033-00	s ELECT 10uF 20% 50V s CERAMIC, CHIP 0.047uF 10% 25V s CERAMIC, CHIP 0.001uF 5% 50V s CERAMIC, CHIP 0.022uF 50V s CERAMIC, CHIP 0.047uF 10% 25V	D111 D112 D121 D122 D301	8-719-200-02 s DIODE 10E-2 8-719-200-02 s DIODE 10E-2 8-719-200-02 s DIODE 10E-2 8-719-200-02 s DIODE 10E-2 8-719-123-85 s DIODE 1SS304
C602 C603 C604 C605 C610	1-163-275-11 1-163-033-00 1-163-033-00	s CERAMIC, CHIP 0.001uF 5% 50V s CERAMIC, CHIP 0.001uF 5% 50V s CERAMIC, CHIP 0.022uF 50V s CERAMIC, CHIP 0.022uF 50V s ELECT 100uF 20% 16V	D311 D312 D401 D402 D403	8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304 8-719-123-85 s DIODE 1SS304
C651 C652 C653 C654 C655	1-163-275-11 1-163-275-11 1-163-033-00	s CERAMIC, CHIP 0.047uF 10% 25V s CERAMIC, CHIP 0.001uF 5% 50V s CERAMIC, CHIP 0.001uF 5% 50V s CERAMIC, CHIP 0.022uF 50V s CERAMIC, CHIP 0.022uF 50V	D551 D581 D951 D952	8-719-123-82 s DIODE 1SS303 8-719-123-82 s DIODE 1SS303 8-719-903-06 s DIODE ERC84-009 8-719-106-08 s DIODE RD6. 2M-B2
C656 C657 C901 C902 C903	1-164-232-11 1-126-101-11 1-124-480-11	s CERAMIC 0.01uF 10% 50V s CERAMIC 0.01uF 10% 50V s ELECT 100uF 20% 16V s ELECT 470uF 20% 25V s ELECT 100uF 20% 16V	IC1 IC5 IC6 IC51 IC52	8-759-938-68 s IC CXD1095Q 8-759-600-34 s IC M54532P 8-759-645-23 s IC M54523P 8-752-348-02 s IC CXK1023P 8-752-348-02 s IC CXK1023P
C904 C905 C906 C907 C951	1-126-101-11 1-124-480-11 1-124-907-11 1-124-907-11	S ELECT 100uF 20% 16V S ELECT 470uF 20% 25V S ELECT 10uF 20% 50V S ELECT 10uF 20% 50V S ELECT 10uF 20% 50V	IC53 IC54 IC101 IC111 IC112	8-752-348-02 s IC CXK1023P 8-759-946-00 s IC MB88341PFV 8-759-205-56 s IC TA7267P 8-759-205-56 s IC TA7267P 8-759-205-56 s IC TA7267P
C952 C953 C954 C956 C957	1-164-344-11 1-163-263-11 1-124-120-11 1-124-120-11	I S CERAMIC 0.068uF 10% 25V I S CERAMIC, CHIP 330PF 5% 50V I S ELECT 220uF 20% 25V I S ELECT 220uF 20% 25V D S CERAMIC, CHIP 0.015uF 10% 50V	IC151 IC152 IC201 IC251 IC252	8-759-908-17 s IC TL082CPS 8-759-700-07 s IC NJM2903M 8-759-908-17 s IC TL082CPS 8-759-106-02 s IC UPC4570G2 8-759-700-07 s IC NJM2903M
C958 C959 C960 C961	1-163-037-11 1-124-903-11 1-124-482-11	ls CERAMIC, CHIP 0.022uF 10% 25V ls ELECT 1uF 20% 50V ls ELECT 33uF 20% 25V ls ELECT 10uF 20% 50V	IC253 IC271 IC272 IC273 IC301	8-759-106-02 s IC UPC4570G2 8-759-106-02 s IC UPC4570G2 8-759-700-07 s IC NJM2903M 8-759-106-02 s IC UPC4570G2 8-759-234-03 s IC TA8424F
CN300 CN302 CN305 CN306 CN307	1-573-601-11 1-564-007-11 1-506-474-11	O o CONNECTOR, IL-S 10P, MALE LO CONNECTOR 64P, MALE LO CONNECTOR 8P, MALE LS CONNECTOR 9P, MALE LO CONNECTOR 12P, MALE	IC302 IC304 IC305 IC401 IC402	8-759-908-17 s IC TL082CPS 8-759-925-80 s IC SN74HC14ANS 8-759-700-07 s IC NJM2903M 8-743-914-00 s IC BX-3914 8-759-106-02 s IC UPC4570G2
CN309 CN314 CN315 CN316 CN317	1-564-004-11 1-564-002-41 1-506-472-11	1 s CONNECTOR 4P, MALE 1 o CONNECTOR 5P, MALE 1 s CONNECTOR 3P, MALE 1 s CONNECTOR 7P, MALE 1 s CONNECTOR 2P, MALE	IC403 IC404 IC405 IC451 IC481	8-759-927-46 s IC SN74HC00ANS 8-759-300-71 s IC HD14053BFP 8-759-300-71 s IC HD14053BFP 8-759-800-72 s IC LA7205 8-759-800-72 s IC LA7205
CN318 CN319 CN320 CN321 CN322	1-506-467-11 1-506-468-11 1-562-708-11	1 s CONNECTOR 2P, MALE 1 s CONNECTOR 2P, MALE 1 s CONNECTOR 3P, MALE 1 o CONNECTOR FPC 13P, FEMALE 1 o CONNECTOR FPC 13P, FEMALE	IC501 IC551 IC552 IC553 IC554	8-759-908-17 s IC TL082CPS 8-759-908-17 s IC TL082CPS 8-759-908-92 s IC TL084CNS 8-759-700-07 s IC NJM2903M 8-759-700-07 s IC NJM2903M
CN323 CN324 CN325 CN360	1-506-469-11 1-506-469-11 1-506-480-11	1 s CONNECTOR 3P, MALE 1 s CONNECTOR 4P, MALE 1 s CONNECTOR 4P, MALE 1 s CONNECTOR 15P, MALE	IC601 IC602 IC651 IC652 IC901	8-759-908-17 s IC TL082CPS 8-759-008-67 s IC MC14066BF 8-759-908-17 s IC TL082CPS 8-759-008-67 s IC MC14066BF 8-759-701-79 s IC NJM7812FA
CNI51 CNI52 CNI53	1-526-652-21	l s SOCKET, IC 8P l s SOCKET, IC 8P l s SOCKET, IC 8P	IC951 IC952	8-759-929-26 s IC TL431CPS 8-759-100-94 s IC UPC358G2
D101 D102		2 s DIODE 10E-2 2 s DIODE 10E-2	IC953 IC954	8-759-700-07 s IC NJM2903M 8-759-100-94 s IC UPC358G2

(DR-232A BOARD)	(DR-232A BOARD)
Ref. No.	Ref. No.
or Q'ty Part No. SPDescription	or Q'ty Part No. SPDescription
L600 1-412-533-21 s INDUCTOR 47uH	R24 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
L901 1-412-533-21 s INDUCTOR 47th	R25 1-216-073-00's METAL, CHIP 10K 5% 1/10W
L902 1-412-533-21 s INDUCTOR 47uH	R26 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
L903 1-412-533-21 s INDUCTOR 47uH	R27 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
L951 1-408-519-00 s COIL, CHOKE	R28 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
PS1 Δ1-532-846-21 s LINK, IC 5.0A PS2 Δ1-532-843-21 s LINK, IC 5.0A PS3 Δ1-532-727-11 s LINK, IC 0.25A Q101 8-729-807-51 s TRANSISTOR 2SD1623-R	R29 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
PS1 ▲ 1-532-846-21 s LINK, IC 5.0A PS2 ▲ 1-532-843-21 s LINK, IC	R30 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
PS3	R31 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
100 441 002 121 11 0 21111, 10 0.2011	R32 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q101 8-729-807-51 s TRANSISTOR 2SD1623-R	R33 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q102 8-729-101-07 s TRANSISTOR 2SB798	DO4 1 010 000 00 NETAL CUID 10V EW 1/10W
Q103 8-729-376-84 s TRANSISTOR 2SA768-G	R34 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R35 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
0201 8-729-807-51 s TRANSISTOR 2SD1623-R	R36 1-216-073-00 S METAL, CHIP 10K 5% 1/10W
Q202 8-729-101-07 s TRANSISTOR 2SB798	R37 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q203 8-729-102-47 s TRANSISTOR 2SA1141-Q	D20 1 216 072 00 c METAI CHID 10K 5% 1/10W
Q204 8-729-102-57 s TRANSISTOR 2SC3012	
Q205 8-729-159-65 s TRANSISTOR 2SD596-DV5	R42 1-216-295-00 s METAL, CHIP 0 5% 1/10W
Q206 8-729-162-45 s TRANSISTOR 2SB624-BV5	R46 1-216-045-00 s METAL, CHIP 680 5% 1/10W
Q207 8-729-102-47 s TRANSISTOR 2SA1141-Q	R51 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R52 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q208 8-729-102-57 s TRANSISTOR 2SC3012	R52 1-210-089-00 S METAL, CHIP 47K 5% 1/10W R53 1-216-089-00 S METAL, CHIP 47K 5% 1/10W
Q208 8-729-102-57 s TRANSISTOR 2SC3012 Q209 8-729-159-65 s TRANSISTOR 2SD596-DV5	100 1210 000 00 0 mm11m; 0111 111 01 1/2011
Q210 8-729-162-45 s TRANSISTOR 2SB624-BV5	R54 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q211 8-729-102-47 s TRANSISTOR 2SA1141-Q	R55 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q212 8-729-102-57 s TRANSISTOR 2SC3012	R56 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q203 8-729-102-47 s TRANSISTOR 2SA1141-Q Q204 8-729-102-57 s TRANSISTOR 2SC3012 Q205 8-729-159-65 s TRANSISTOR 2SD596-DV5 Q206 8-729-162-45 s TRANSISTOR 2SB624-BV5 Q207 8-729-102-47 s TRANSISTOR 2SA1141-Q Q208 8-729-102-57 s TRANSISTOR 2SC3012 Q209 8-729-159-65 s TRANSISTOR 2SD596-DV5 Q210 8-729-162-45 s TRANSISTOR 2SB624-BV5 Q211 8-729-102-47 s TRANSISTOR 2SB624-BV5 Q211 8-729-102-57 s TRANSISTOR 2SA1141-Q Q212 8-729-102-57 s TRANSISTOR 2SC3012 Q401 8-729-905-18 s TRANSISTOR DTC144EU	R101 1-216-105-00 s METAL, CHIP 220K 5% 1/10W R102 1-215-863-11 s METAL 100 5% 1W
Q401 8-729-905-18 s TRANSISTOR DTC144EU	R102 1-215-863-11 s METAL 100 5% 1W
Q402 8-729-140-63 s TRANSISTOR 2SA1611-M5M6 Q404 8-729-905-18 s TRANSISTOR DTC144EU	R103 1-215-868-00 s METAL 680 5% 1W
Q501 8-729-159-65 s TRANSISTOR 2SD596-DV5	R104 1-215-867-00 s METAL 470 5% 1W
Q502 8-729-141-83 s TRANSISTOR 2SA473-Y	R105 1-216-385-11 s METAL, CHIP 0.47 5% 3W
·	R106 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q503 8-729-101-07 s TRANSISTOR 2SB798	R107 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q504 8-729-807-51 s TRANSISTOR 2SD1623-R	R108 1-216-383-11 s METAL, CHIP 0.33 5% 3W
0505 8-729-376-84 s TRANSISTOR 2SA768-G 0551 8-729-209-07 s TRANSISTOR 2SC4213-B	R111 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
	R112 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q951 8-729-117-32 s TRANSISTOR 2SC4177	R113 1-216-383-11 s METAL, CHIP 0.33 5% 3W
Q952 8-729-140-63 s TRANSISTOR 2SA1611-M5M6	R121 $1-216-073-00$ s METAL, CHIP 10K 5% $1/10W$
Q953 8-729-142-68 s TRANSISTOR 2SJ143	D100 1 010 070 00 NDTNI CUIT 10V 5W 1/10W
Q954 8-729-101-07 s TRANSISTOR 2SB798	R122 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R123 1-216-383-11 s METAL, CHIP 0.33 5% 3W
DO 1 OLC DOE OO - METAL CHID O EW 1/10W	R123 1-216-383-11 s METAL, CHIP 0.33 5% 3W R151 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R2 1-216-295-00 s METAL, CHIP 0 5% 1/10W R3 1-216-097-00 s METAL, CHIP 100K 5% 1/10W	R151 1-216-035-00 \$ METAL, CHIP 47K 5% 1/10W
R3 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R4 1-216-295-00 s METAL, CHIP 0.5% 1/10W	R153 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R5 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	
DC 1 216 007 00 6 METAL CHIP 100K 5% 1/10W	R154 1-216-049-00 s METAL, CHIP 1K 5% 1/1OW

Q 202	8-729-101-07 s TRANSISTOR 2SB798	R36 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R37 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q203 Q204	8-729-102-47 s TRANSISTOR 2SA1141-Q 8-729-102-57 s TRANSISTOR 2SC3012	R38 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R42 1-216-295-00 s METAL, CHIP 0 5% 1/10W
Q205 Q206 Q207	8-729-159-65 s TRANSISTOR 2SD596-DV5 8-729-162-45 s TRANSISTOR 2SB624-BV5 8-729-102-47 s TRANSISTOR 2SA1141-Q	R46 1-216-045-00 s METAL, CHIP 680 5% 1/10W R51 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q208	8-729-102-57 s TRANSISTOR 2SC3012	R52 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R53 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q209 Q210 Q211	8-729-159-65 s TRANSISTOR 2SD596-DV5 8-729-162-45 s TRANSISTOR 2SB624-BV5 8-729-102-47 s TRANSISTOR 2SA1141-Q	R54 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R55 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q212	8-729-102-57 s TRANSISTOR 2SC3012	R56 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R101 1-216-105-00 s METAL, CHIP 220K 5% 1/10W R102 1-215-863-11 s METAL 100 5% 1W
Q401 Q402 Q404	8-729-905-18 s TRANSISTOR DTC144EU 8-729-140-63 s TRANSISTOR 2SA1611-M5M6 8-729-905-18 s TRANSISTOR DTC144EU	R102 1-215-863-11 s METAL 100 5% 1W R103 1-215-868-00 s METAL 680 5% 1W
Q501 Q502	8-729-159-65 s TRANSISTOR 2SD596-DV5 8-729-141-83 s TRANSISTOR 2SA473-Y	R104 1-215-867-00 s METAL 470 5% 1W R105 1-216-385-11 s METAL, CHIP 0.47 5% 3W
Q503 Q504	8-729-101-07 s TRANSISTOR 2SB798 8-729-807-51 s TRANSISTOR 2SD1623-R	R106 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R107 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q 505 Q 551	8-729-376-84 s TRANSISTOR 2SA768-G 8-729-209-07 s TRANSISTOR 2SC4213-B	R108 1-216-383-11 s METAL, CHIP 0.33 5% 3W R111 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R112 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q9 51 Q9 52	8-729-117-32 s TRANSISTOR 2SC4177 8-729-140-63 s TRANSISTOR 2SA1611-M5M6	R112 1-216-073-00 \$ METAL, CHIP 10K 5% 1/10W R113 1-216-073-00 \$ METAL, CHIP 10K 5% 1/10W
Q953 Q954	8-729-142-68 s TRANSISTOR 2SJ143 8-729-101-07 s TRANSISTOR 2SB798	R122 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R123 1-216-383-11 s METAL, CHIP 0.33 5% 3W
R2 R3	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W	R151 1-216-033-00 s METAL, CHIP 220 5% 1/10W R152 1-216-089-00 s METAL. CHIP 47K 5% 1/10W
R4 R5 R6	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W	R153 1-216-041-00 s METAL, CHIP 470 5% 1/10W R154 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R7	1-216-073-00 s METAL. CHIP 10K 5% 1/10W	R155 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R156 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R8 R9 R10	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R157 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R160 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R11	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R201 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R202 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R12 R13 R14	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R203 1-216-049-00 s METAL, CHIP 1K 5% 1/1 OW R204 1-216-049-00 s METAL, CHIP 1K 5% 1/1 OW R205 1-215-889-00 s METAL 330 5% 2W
R15 R16	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R206 1-216-049-00 s METAL, CHIP 1K 5% 1/1OW
R17 R18	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R207 1-215-889-00 s METAL 330 5% 2W R208 1-215-863-11 s METAL 100 5% 1W R209 1-215-863-11 s METAL 100 5% 1W
R19 R20	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R210 1-216-365-00 s METAL, CHIP 0.47 5% NV R211 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R21 R22	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R212 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R213 1-215-863-11 s METAL 100 5% 1W
R23	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R214 1-215-863-11 s METAL 100 5% 1W

Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
R215	1-216-365-00 s METAL, CHIP 0.47 5% 2W	R324	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-103-00 s METAL, CHIP 180K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R216	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R325	
R217	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R326	
R218	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R327	
R219	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R328	
R220	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R329	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R221	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R330	
R251	1-216-079-00 s METAL, CHIP 18K 5% 1/10W	R331	
R252	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R332	
R253	1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W	R333	
R255	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R341	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-208-801-11 s METAL 6.2K 0.5% 1/10W
R256	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R342	
R257	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R343	
R258	1-216-113-00 s METAL, CHIP 470K 5% 1/10W	R344	
R259	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R401	
R260	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R402	1-216-133-00 s METAL, CHIP 3.3M 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-646-11 s METAL, CHIP 620 0.5% 1/10W
R261	1-216-079-00 s METAL, CHIP 18K 5% 1/10W	R403	
R262	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R404	
R263	1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W	R405	
R265	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R406	
R266 R267 R268 R269 R271	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-113-00 s METAL, CHIP 470K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-079-00 s METAL, CHIP 18K 5% 1/10W	R407 R408 R409 R410 R411	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R272	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R412	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R273	1-216-666-11 s METAL, CHIP 4.3K.0.5% 1/10W	R413	1-215-911-11 s METAL 100 5% 3W
R275	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R414	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R276	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R415	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R277	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R416	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R278	1-216-113-00 s METAL, CHIP 470K 5% 1/10W	R451	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R279	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R452	
R280	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R481	
R281	1-216-079-00 s METAL, CHIP 18K 5% 1/10W	R482	
R282	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R501	
R283	1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W	R502	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-215-866-11 s METAL 330 5% 1W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-383-11 s METAL, CHIP 0.33 5% 3W 1-216-105-00 s METAL, CHIP 220K 5% 1/10W
R285	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R503	
R286	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R504	
R287	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W	R505	
R288	1-216-113-00 s METAL, CHIP 470K 5% 1/10W	R506	
R289	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R507	1-215-863-11 s METAL 100 5% 1W
R291	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R508	1-215-863-11 s METAL 100 5% 1W
R292	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R509	1-216-365-00 s METAL, CHIP 0.47 5% 2W
R293	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R510	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R294	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R511	1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W
R301	1-216-031-00 s METAL, CHIP 180 5% 1/10W	R512	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-691-11 s METAL, CHIP 47K 0.5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R302	1-216-027-00 s METAL, CHIP 120 5% 1/10W	R513	
R303	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W	R551	
R304	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R552	
R305	1-249-383-11 s CARBON 1.5 5% 1/4W	R553	
R306	1-249-383-11 s CARBON 1.5 5% 1/4W	R554	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R307	1-249-383-11 s CARBON 1.5 5% 1/4W	R555	
R308	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R556	
R309	1-216-349-00 s METAL, CHIP 1 5% 1W	R557	
R310	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R558	
R311	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R559	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R312	1-216-295-00 s METAL, CHIP 0 5% 1/10W	R560	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R314	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R561	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R315	1-216-295-00 s METAL, CHIP 0 5% 1/10W	R562	1-216-081-00 s METAL, CHIP 22K 5% 1/10W

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(DR-232A BOARD)
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Ref. No. or Q'ty	Part No. SPDescription
R563 R564 R565 R566 R567	1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-093-00 s METAL, CHIP 68K 5% 1/10W 1-216-093-00 s METAL, CHIP 68K 5% 1/10W
R568 R569 R571 R582 R583	1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R584	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R585	1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R586	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R587	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R588	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R589	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R590	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R591	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R592	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R593	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R594	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R595	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R596	1-216-093-00 s METAL, CHIP 68K 5% 1/10W
R597	1-216-093-00 s METAL, CHIP 68K 5% 1/10W
R598	1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R599 R600 R601 R602 R603	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R604	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R605	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R606	1-216-109-00 s METAL, CHIP 330K 5% 1/10W
R607	1-216-109-00 s METAL, CHIP 330K 5% 1/10W
R651	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R652	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R653	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R654	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R655	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R656	1-216-109-00 s METAL, CHIP 330K 5% 1/10W
R657	1-216-109-00 s METAL, CHIP 330K 5% 1/10W
R951	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R952	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R953	1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R954	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R955	1-216-075-00 s METAL, CHIP 12K 5% 1/10W
R956	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R957	1-216-113-00 s METAL, CHIP 470K 5% 1/10W
R958	1-216-113-00 s METAL, CHIP 470K 5% 1/10W
R959	1-216-115-00 s METAL, CHIP 560K 5% 1/10W
R960 R961 R962 R963 R965	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-689-11 s METAL, CHIP 39K 5% 1/10W
R966	1-216-689-11 s METAL, CHIP 39K 5% 1/10W
R967	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R968	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R969	1-216-073-00 s METAL, CHIP 10K 5% 1/10W

(DR-232A BOARD)

Ref. No. or Q'ty	Part No. SPDescription
R970 R971 R972 R973 R974	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R975 R976 R977 R978 R979	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-207-612-00 s WIREWOUND 0.1 10% 3W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-689-11 s METAL, CHIP 39K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-689-11 s METAL, CHIP 39K 5% 1/10W
R981	1-216-073-00 s METAL, CHIP 10K 5% 1/10W

DS-31 BOARD

Ref. No. or Q'ty	Part No. SPDescription
1pc	1-640-167-11 o PRINTED CIRCUIT BOARD, DS-31
CN1	1-564-013-11 o PIN, CONNECTOR 3P
IC1	8-759-729-03 s IC NJM2903D
R1 R2 R3 R4 R5	1-215-456-00 s METAL 30K 1% 1/4W 1-215-437-00 s METAL 4.7K 1% 1/4W 1-215-419-00 s METAL 820 1% 1/4W 1-215-469-00 s METAL 100K 1% 1/4W 1-215-440-00 s METAL 6.2K 1% 1/4W
R6 R7	1-215-487-00 s METAL 560K 1% 1/4W 1-215-453-00 s METAL 22K 1% 1/4W

DUS-668 BOARD

Ref. No. or Q'ty Part No. SPDescription

All of component parts on the DUS-668 board are supplied together when you order VP-33AP board.

1pc 1-648-773-11 s PRINTED CIRCUIT BOARD, DUS-668

HC-14C BOARD		(HC-14C I	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
1pc	A-6717-635-B o MOUNTED CIRCUIT BOARD, HC-14C	R26 R27	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
C1 C2 C3 C4 C5	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-124-229-00 s ELECT 33uF 20% 10V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V	R28 R29 R30	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	R33 R34 R35	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
C6 C7 C8 C9	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	R38 R41 R44	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
C10 C11	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	R44 R45 R48	1-216-057-00 s METAL, CHIP 2.2K 0.3% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
CN550	1-566-766-11 o CONNECTOR 11P, MALE	R51 R100	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
CN551 CN552 CN553 CN554	1-566-760-11 s CONNECTOR ZR 5P, MALE 1-565-772-11 o CONNECTOR PS 10P, MALE 1-566-765-11 o PIN, CONNECTOR 10P, MALE 1-566-762-11 o PIN, CONNECTOR 7P, MALE	R101 R102 R103 R104	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
CN555	1-566-761-11 o PIN, CONNECTOR 6P, MALE	R105	1-216-295-00 s METAL, CHIP 0 5% 1/10W
CP1	1-548-152-11 o HOUR METER, DIGITAL	R106 R108 R109	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
D1 IC1	8-719-939-39 s LED GL-5HD8, RED 8-759-043-36 s IC MC68HC05N4-SC406673	R110 R111	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
IC2 IC3	8-759-926-64 s IC SN74HC367ANS 8-759-300-71 s IC HD14053BFP	R112 R113	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
PS1 PS2	Δ1-532-839-11 s LINK, IC Δ1-532-839-11 s LINK, IC	R114 R115 R116	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
Q1 Q2 Q3 Q4 Q5	8-729-924-56 s TRANSISTOR DTC123JU 8-729-924-56 s TRANSISTOR DTC123JU 8-729-924-56 s TRANSISTOR DTC123JU 8-729-924-56 s TRANSISTOR DTC123JU 8-729-924-56 s TRANSISTOR DTC123JU	R118 R119 R120 R121 R122	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
R1 R2 R3 R4 R5	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R124 R125 R126 R127 R128	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
R6 R7 R8 R9 R10	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R129 R130 R131 R132 R133	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
R11 R12 R13 R14 R15	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-037-00 s METAL, CHIP 330 5% 1/10W	RV1 RV3 RV4 RV5 RV6	1-237-695-11 s RES, VAR, CARBON 5K 1-237-695-11 s RES, VAR, CARBON 5K 1-237-695-11 s RES, VAR, CARBON 5K 1-237-696-11 s RES, VAR, CARBON 5K 1-237-696-11 s RES, VAR, CARBON 5K
R16 R17	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	RV7	1-237-696-11 s RES, VAR, CARBON 5K
R18 R19 R20	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	S1 S2	1-572-839-11 s SWITCH, SLIDE 1-572-837-11 s SWITCH, SLIDE
R21 R22	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	S7 S8 S9	1-554-909-11 s SWITCH, PUSH 1-554-909-11 s SWITCH, PUSH 1-572-837-11 s SWITCH, SLIDE
R23 R24 R25	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	S10 S11	1-572-838-11 s SWITCH, SLIDE 1-572-837-11 s SWITCH, SLIDE

(HC-14C BOARD)

Ref. No. or Q'ty Part No. SPDescription

S13 1-572-837-11 s SWITCH, SLIDE 1-572-837-11 s SWITCH, SLIDE 1-572-837-11 s SWITCH, SLIDE 1-572-837-11 s SWITCH, SLIDE 1-554-949-11 s SWITCH, SLIDE

X1 1-567-192-11 s OSCILLATOR, CERAMIC 4.00MHz

KY-210A BOARD

Ref. No. or Q'ty	Part No. SPDescription
	rd indcludes the DP-139A board. A-6717-621-B o MOUNTED CIRCUIT BOARD, KY-210A 3-660-828-00 o HOLDER (9), PC BOARD 3-668-124-00 o HOLDER, LED
C7	1-124-907-11 s ELECT 10uF 20% 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-126-101-11 s ELECT 100uF 20% 16V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C9	1-124-907-11 s ELECT 10uF 20% 50V
C10	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C12	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
C13	1-124-907-11 s ELECT 10uF 20% 50V
C14	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C16	1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
C17	1-163-104-00 s CERAMIC, CHIP 30PF 5% 50V
C20	1-124-907-11 s ELECT 10uF 20% 50V
C21	1-124-907-11 s ELECT 10uF 20% 50V
C22	1-124-907-11 s ELECT 10uF 20% 50V
C23	1-124-907-11 s ELECT 10uF 20% 50V
C24	1-124-907-11 s ELECT 10uF 20% 50V
C25	1-124-907-11 s ELECT 10uF 20% 50V
C26	1-124-907-11 s ELECT 10uF 20% 50V
C27	1-124-907-11 s ELECT 10uF 20% 50V
C30	1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C31	1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C32	1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C33	1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V
C47	1-124-907-11 s ELECT 10uF 20% 50V
C48	1-124-477-11 s ELECT 47uF 20% 16V
C50	1-163-025-11 s CERAMIC, CHIP 0.001uF 50V
C51	1-163-025-11 s CERAMIC, CHIP 0.001uF 50V
CN2	1-506-485-11 s CONNECTOR 6P, MALE
CN590	1-559-261-21 s CABLE, FLAT 10P
CN1003	1-535-761-11 o WIRE, JUMPER (HIGH W:NDING)
D1	8-719-104-34 s DIODE 1S2835
D2	8-719-104-34 s DIODE 1S2835
D4	8-719-109-57 s DIODE RD2.4ES-B2
D5	8-719-109-57 s DIODE RD2.4ES-B2
D6	8-719-109-57 s DIODE RD2.4ES-B2
D7	8-719-109-57 s DIODE RD2.4ES-B2
D8	8-719-109-57 s DIODE RD2.4ES-B2
D9	8-719-109-57 s DIODE RD2.4ES-B2
D10	8-719-109-57 s DIODE RD2.4ES-B2
D11	8-719-104-34 s DIODE 1S2835
D12	8-719-104-34 s DIODE 1S2835
D13	8-719-104-34 s DIODE 1S2835
D14	8-719-104-34 s DIODE 1S2835
D23	8-719-104-34 s DIODE 1S2835
D29	8-719-104-34 s DIODE 1S2835
D30	8-719-104-34 s DIODE 1S2835
D49	8-719-802-11 s LED TLUG154, GRN
D55	8-719-939-39 s LED GL5HD8, RED
D56	8-719-939-39 s LED GL5HD8, RED
D57	8-719-802-11 s LED TLUG154, GRN
D58	8-719-939-39 s LED GL5HD8, RED
D59	8-719-802-11 s LED TLUG154, GRN
D63	8-719-939-39 s LED GL5HD8, RED

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Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
IC2 IC3 IC4 IC5 IC6	8-759-708-05 s IC NJM78L05A 8-759-500-43 s IC CXD8117P 8-759-501-52 s IC M50747H-250SP 8-759-645-16 s IC M54516P 8-759-645-16 s IC M54516P	R8 R9 R10 R11 R12	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W
IC7 IC8	8-759-645-16 s IC M54516P 8-759-708-05 s IC NJM78L05A	R13 R14 R15	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
Q2 Q3 Q4 Q5 Q 6	8-729-120-28 s TRANSISTOR 2SC1623 8-729-901-01 s TRANSISTOR DTC144EK 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	R16 R17	1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q7 Q8 Q9	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	R20 R21 R22	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-073-00 s METAL, CHIP 1OK 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
Q10 Q12 Q13	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	R24 R25 R30	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-247-811-31 s CARBON 150 5% 1/4W
Q14 Q15 Q16	8-729-216-22 s TRANSISTOR 2SA1162	R31	1-247-811-31 s CARBON 150 5% 1/4W 1-247-811-31 s CARBON 150 5% 1/4W
Q17 Q18	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162	R34 R35	1-247-811-31 s CARBON 150 5% 1/4W 1-247-811-31 s CARBON 150 5% 1/4W 1-247-811-31 s CARBON 150 5% 1/4W
Q19 Q20 Q21 Q22	8-729-216-22 s TRANSISTOR 2SA1162 8-729-923-62 s TRANSISTOR DTA123JK 8-729-923-62 s TRANSISTOR DTA123JK 8-729-923-62 s TRANSISTOR DTA123JK	R36 R37 R38	1-247-811-31 s CARBON 150 5% 1/4W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q23 Q24 Q25	8-729-923-62 s TRANSISTOR DTA123JK 8-729-923-62 s TRANSISTOR DTA123JK 8-729-922-73 s TRANSISTOR DTC123JK	R39 R40 R41	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q26 Q27	8-729-922-73 s TRANSISTOR DTC123JK 8-729-922-73 s TRANSISTOR DTC123JK	R42 R43 R44	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q28 Q29 Q30 Q31	8-729-922-73 s TRANSISTOR DTC123JK 8-729-922-73 s TRANSISTOR DTC123JK 8-729-922-73 s TRANSISTOR DTC123JK 8-729-922-73 s TRANSISTOR DTC123JK 8-729-922-73 s TRANSISTOR DTC123JK	R45 R46	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q32 Q33 Q34	8-729-900-51 s TRANSISTOR DTA114TK 8-729-120-28 s TRANSISTOR 2SC1623	R48 R49 R50 R51	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q35 Q36 Q37	8-729-900-51 s TRANSISTOR DTA114TK 8-729-120-28 s TRANSISTOR 2SC1623 8-729-900-51 s TRANSISTOR DTA114TK	R52 R53 R54	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q38 Q39 Q40	8-729-120-28 s TRANSISTOR 2SC1623 8-729-900-51 s TRANSISTOR DTA114TK 8-729-120-28 s TRANSISTOR 2SC1623	R55 R56	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q41 Q42	8-729-900-51 s TRANSISTOR DTA114TK 8-729-120-28 s TRANSISTOR 2SC1623	R57 R58 R59	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q43 Q44 Q45	8-729-900-51 s TRANSISTOR DTA114TK 8-729-120-28 s TRANSISTOR 2SC1623 8-729-900-51 s TRANSISTOR DTA114TK	R60 R67	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W
Q46 Q47	8-729-120-28 s TRANSISTOR 2SC1623 8-729-900-51 s TRANSISTOR DTA114TK	R68 R69 R70	1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W
Q48 Q87 Q88	8-729-120-28 s TRANSISTOR 2SC1623 8-729-120-28 s TRANSISTOR 2SC1623 8-729-120-28 s TRANSISTOR 2SC1623	R71 R72	1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R5 R6 R7	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R73 R74 R75 R76	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W

(KY-210A BOARD)

Ref. No. or Q'ty	Part No. SPDescription
R77 R78 R79 R80 R81	1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R82 R83 R84 R85 R86	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W
R87 R88 R89 R90 R91	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R92 R93 R94 R95 R103	1-249-410-11 s CARBON 270 5% 1/4W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R104 R106 R107 R109 R110	1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W
R112 R113 R115 R116 R121	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R122 R124 R125 R148 R159	1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-043-00 s METAL, CHIP 560 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R160 R161 R162 R163 R170	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R171 R172 R173	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
\$1 \$2 \$3 \$4 \$5	1-692-609-11 s SWITCH, TACTILE, WITH LED 1-692-609-21 s SWITCH, TACTILE, WITH LED 1-692-612-41 s SWITCH, TACTILE, WITH LED 1-692-612-31 s SWITCH, TACTILE, WITH LED 1-692-612-21 s SWITCH, TACTILE, WITH LED
S6 S7 S24 S34 S35	1-692-612-11 s SWITCH, TACTILE, WITH LED 1-692-612-11 s SWITCH, TACTILE, WITH LED 1-516-995-00 s SWITCH, LEVER SLIDE 1-552-539-00 s SWITCH, TACTILE 1-552-539-00 s SWITCH, TACTILE
X1	1-567-869-11 s VIBRATOR, CERAMIC 9.83MHz

LP-57 BOARD

Ref. No. or Q'ty	Part No.	SPDescription
1pc	3-171-508-04	o HOLDER, LAMP
CN932	1-564-001-11	o CONNECTOR 2P, MALE
D1 D2 D3 D4 D5	8-719-820-27 8-719-820-27	s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL
D6 D7 D8 D9 D10	8-719-820-27 8-719-820-27	s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL s LED TLY256, YEL
R1 R2 R3 R4 R5	1-249-409-11 1-249-409-11 1-249-409-11	s CARBON 220 5% 1/4W s CARBON 220 5% 1/4W s CARBON 220 5% 1/4W s CARBON 220 5% 1/4W s CARBON 220 5% 1/4W

MA-44A B	OARD	(MA-44A F	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
1pc	A-6713-450-A o MOUNTED CIRCUIT BOARD, MA-44A	Q4 Q5	8-729-117-32 s TRANSISTOR 2SC4177 8-729-143-63 s TRANSISTOR 2SJ132
C1 C2 C3 C4	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	Q6 Q7 Q8	8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132
C5	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	Q9 Q10	8-729-143-63 s TRANSISTOR 2SJ132 8-729-143-63 s TRANSISTOR 2SJ132
C6 C7 C8 C9 C10	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	R1 R2 R3 R4 R5	1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-089-91 s METAL, CHIP 47K 5% 1/10W
C11 C12 C13 C14 C15	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 16V	R6 R7 R8 R9 R10	1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
C16 C17 C18 C19 C20	1-124-477-11 s ELECT 47uF 20% 16V 1-124-927-11 s ELECT 4.7uF 20% 50V 1-124-927-11 s ELECT 4.7uF 20% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	R11 R12 R13 R14 R15	1-216-107-00 s METAL, CHIP 270K 5% 1/10W 1-216-107-00 s METAL, CHIP 270K 5% 1/10W
C21 C22 C23 C24 C25	1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	R16 R17 R18 R19 R20	1-216-107-00 s METAL, CHIP 270K 5% 1/10W 1-216-107-00 s METAL, CHIP 270K 5% 1/10W 1-216-107-00 s METAL, CHIP 270K 5% 1/10W 1-216-105-00 s METAL, CHIP 270K 5% 1/10W 1-216-105-00 s METAL, CHIP 220K 5% 1/10W 1-216-105-00 s METAL, CHIP 220K 5% 1/10W
C26 C27 C28 C29 C30	1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-131-348-00 s TANTALUM 1.5uF 10% 20V 1-131-348-00 s TANTALUM 1.5uF 10% 20V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-164-004-11 s CERAMIC 0.1uF 10% 25V	R21 R22 R23 R24 R25	1-216-105-00 s METAL, CHIP 220K 5% 1/10W 1-216-105-00 s METAL, CHIP 220K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-075-00 s METAL, CHIP 12K 5% 1/10W
C509 C510 C511 C512 C513	1-124-907-11 s ELECT 10uF 20% 50V		1-216-075-00 s METAL, CHIP 12K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
C514 C515	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	R31	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
CN406 CN408 CN409 CN410	1-569-343-11 s CONNECTOR, BOARD TO BOARD 21P 1-506-481-11 s PIN, CONNECTOR 2P 1-506-481-11 s PIN, CONNECTOR 2P 1-506-481-11 s PIN, CONNECTOR 2P	R32 R33 R34 R35	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
CN411 D1 D2 D3	1-506-481-11 s PIN, CONNECTOR 2P 8-719-123-82 s DIODE 1SS303 8-719-123-82 s DIODE 1SS303 8-719-123-82 s DIODE 1SS303	R36 R37 R38 R39 R40	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W
IC1 IC2 IC3 IC4 IC5	8-759-981-96 s IC RC4560D 8-759-145-57 s IC UPC4557C 8-759-145-57 s IC UPC4557C 8-759-140-53 s IC UPD4053BC 8-759-981-96 s IC RC4560D	R41 R42 R43 R44 R45	1-216-095-00 s METAL, CHIP 82K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-071-00 s METAL, CHIP 8.2K 5% 1/10W 1-216-095-00 s METAL, CHIP 82K 5% 1/10W
IC503 IC504 IC505	8-759-701-59 s IC NJM7809FA 8-759-701-87 s IC NJM7909FA 8-759-603-69 s IC M51957BL	R46 R47 R48 R49	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
Q1 Q2 Q3	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177	R50 R51	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W

(MA-44A BOARD)

Ref. No. or Q'ty	Part No. SPDescription
R52 R53 R54 R55 R56	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R57 R58 R59 R60 R61	1-216-083-00 s METAL, CHIP 27K 5% 1/10W 1-216-067-00 s METAL, CHIP 5.6K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R62 R501	1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-089-91 s METAL 47K 5% 1/10W
RV1 RV2	1-238-789-11 s RES, ADJ, CERMET 50K 1-238-789-11 s RES, ADJ, CERMET 50K

MB-322D BOARD

Ref. No. or Q'ty	Part No. SPDescription
1pc	A-8276-480-A o MOUNTED CIRCUIT BOARD, MB-322 (D)
C101	1-164-004-11 s CERAMIC 0.1uF 10% 25V
C102	1-164-004-11 s CERAMIC 0.1uF 10% 25V
CN103	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN104	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN105	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN106	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN109	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN110	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN111	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN114	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN139	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN140	1-573-598-31 s CONNECTOR, PHEC 100P, FEMALE
CN141	1-573-598-11 s CONNECTOR, PHEC 100P, FEMALE
CN150	1-568-950-11 o CONNECTOR 12P, MALE
CN151	1-568-950-11 o CONNECTOR 12P, MALE
CN200	1-568-945-11 o CONNECTOR 7P, MALE
CN202	1-568-948-11 o CONNECTOR 10P, MALE
CN203	1-506-493-11 s CONNECTOR 14P, MALE
CN204	1-568-949-11 o CONNECTOR 11P, MALE
CN205	1-568-942-11 o CONNECTOR 4P, MALE
CN206	1-568-944-11 o CONNECTOR 6P, MALE
CN207	1-568-943-11 o CONNECTOR 5P, MALE
CN212	1-506-471-11 s CONNECTOR 6P, MALE
CN213	1-568-955-11 o CONNECTOR 6P, MALE
CN214	1-506-469-11 s CONNECTOR 4P, MALE
CN220	1-568-941-11 o CONNECTOR 3P, MALE
CN221	1-565-879-11 s CONNECTOR 7P, MALE
CN222	1-565-883-11 o CONNECTOR 11P, MALE
CN223	1-565-882-11 o CONNECTOR 10P, MALE
CN224	1-568-934-11 o CONNECTOR 7P, MALE
CN225	1-568-935-11 o CONNECTOR 8P, MALE
CN226	1-565-882-11 o CONNECTOR 10P, MALE
CN260	1-564-209-00 o CONNECTOR, IL-S 10P, M ALE
CN262	1-690-104-11 s CABLE, FLAT 64P
CN292	1-564-216-00 o CONNECTOR 5P
CN293	1-564-915-11 o CONNECTOR 7P
CN294	1-564-243-11 o CONNECTOR 6P
PS1	▲ 1-532-840-21 s LINK, IC PRF1250 1.25 A

PC-62 BOARD		PTC-39 BOARD		
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription	
lpc lpc	1-640-171-12 o PRINTED CIRCUIT BOARD, PC-62 3-176-598-02 o SPRING, GROUND	lpc lpc	1-633-548-13 o PRINTED CIRCUIT BOARD, PTC-39 2-124-699-02 o HOLDER, SENSOR	
CN934	1-565-038-11 s CONNECTOR, FPC 5P	C1 C2	1-162-875-11 s CERAMIC 68PF 5% 50V 1-162-875-11 s CERAMIC 68PF 5% 50V	
PH1 PH2 PH3	8-719-939-05 s PHOTO INTERRUPTER GP1S54 8-719-939-05 s PHOTO INTERRUPTER GP1S54 8-719-939-05 s PHOTO INTERRUPTER GP1S54	C3 1-126-154-11 C4 1-161-379-00	1-162-675-11 s ELECT 47uF 20% 6.3V 1-161-379-00 s CERAMIC 0.01uF 30% 16V 1-161-379-00 s CERAMIC 0.01uF 30% 16V	
R1	1-247-825-31 s CARBON 560 5% 1/4W	CN1	1-564-005-11 o CONNECTOR 6P, MALE	
R2 R3	1-247-825-31 s CARBON 560 5% 1/4W 1-247-825-31 s CARBON 560 5% 1/4W	DME1	8-745-001-00 s DM-211A	
		IC1 IC2 IC3 IC4	8-759-145-58 s IC UPC4558C 8-759-981-64 s IC LM2903P 8-719-985-75 s PHOTO INTERRUPTER GP1A53HR 8-719-985-74 s PHOTO INTERRUPTER GP1A52HR	
PD-56 BO	ARD	Q1	8-729-900-33 s TRANSISTOR DTC144EF	
1pc CN914	Part No. SPDescription 1-640-162-12 o PRINTED CIRCUIT BOARD, PD-56 1-506-472-11 s CONNECTOR 7P, MALE	R1 R2 R3 R4 R5	1-247-895-00 s CARBON 470K 5% 1/4W 1-247-847-31 s CARBON 4.7K 5% 1/4W 1-247-887-00 s CARBON 220K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W	
CN915 CN916	1-564-001-11 o CONNECTOR 2P, MALE 1-508-900-00 s CONNECTOR (M) 2P	R6 R7 R8 R9 R10	1-249-433-11 s CARBON 22K 5% 1/4W 1-247-895-00 s CARBON 470K 5% 1/4W 1-247-847-31 s CARBON 4.7K 5% 1/4W 1-247-887-00 s CARBON 220K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W	
		R11 R12 R13	1-249-433-11 s CARBON 22K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W 1-247-809-31 s CARBON 12O 5% 1/4W	
		RV1 RV2	1-228-471-11 s RES, ADJ, CERMET 1K 1-228-471-11 s RES, ADJ, CERMET 1K	

PTC-42 BOARD

Ref. No. or Q'ty	Part No. SPDescription
1pc	1-640-168-12 o PRINTED CIRCUIT BOARD, PTC-42
CN924	1-564-014-11 s CONNECTOR 4P, MALE
R1 R2	1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W

PTC-49 BOARD

Ref. No. or Q'ty SPDescription Part No.

1-640-164-11 o PRINTED CIRCUIT BOARD, PTC-49 1pc

CN901 CN902 CN903

8-719-939-05 s PHOTO INTERRUPTER GP1S54 8-719-939-05 s PHOTO INTERRUPTER GP1S54 PH1 PH2

1-249-409-11 s CARBON 220 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W R1 R2

PTC-54 BOARD

Ref. No. or Q'ty Part No. SPDescription

1-640-163-11 o PRINTED CIRCUIT BOARD, PTC-54 1pc

1-564-013-11 o CONNECTOR 3P, MALE CN904

8-719-939-05 s PHOTO INTERRUPTER GP1S54 PH1

PTC-55 BOARD

Ref. No. or Q'ty Part No. SPDescription

1-640-165-11 o PRINTED CIRCUIT BOARD, PTC-55 1pc

CN922 1-564-004-11 o CONNECTOR 5P, MALE

8-719-938-07 s LED GL480, INFRARED 8-719-938-07 s LED GL480, INFRARED 8-719-938-07 s LED GL480, INFRARED D3

8-729-903-81 s PHOTO TRANSISTOR PT480 8-729-903-81 s PHOTO TRANSISTOR PT480 8-729-903-81 s PHOTO TRANSISTOR PT480

RM-82 BOARD

Ref. No. or Q'ty **SPDescription** Part No.

1-640-166-12 o PRINTED CIRCUIT BOARD, RM-82 2pcs

1-563-233-11 o CONNECTOR, FPC 13P, FEMALE 1-506-469-11 s CONNECTOR 4P, MALE 1-506-468-11 s CONNECTOR 3P, MALE CN923

CN926 CN927

RM-93A BOARD

Ref. No. or Q'ty Part No. **SPDescription**

1-640-048-23 o PRINTED CIRCUIT BOARD, RM-93A 1pc

C700 C701 C702

1-124-122-11 s ELECT 100uF 20% 50V 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V 1-163-035-00 s CERAMIC, CHIP 0.047uF 50V

CN700

1-506-472-11 s CONNECTOR 7P, MALE 1-573-566-11 s CONNECTOR, D-SUB 9P, FEMALE 1-566-765-11 o PIN, CONNECTOR 10P, MALE 1-764-259-11 s CONNECTOR, D-SUB 15P, MALE 1-508-900-00 s CONNECTOR (M) 2P CN705

CN710 CN715

CN720

8-759-172-41 s IC L78M09T 8-759-173-37 s IC L79M09T IC701 IC702

1-215-909-11 s METAL 47 5% 3W R700

RP-57AP	BOARD	(RP-57AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
lpc lpc	A-6727-375-A o MOUNTED CIRCUIT BOARD, RP-57AP 3-171-456-02 o SHEET (S), CARD	CN102 CN114	1-506-468-11 o CONNECTOR 3P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE
lpc lpc lpc	3-171-485-02 o GUARD, EDGE 7-621-759-45 s +PSW, 2.6X6 4-352-844-01 s PIN, LEAD, COATING	D701 D702	8-719-123-82 s DIODE 1SS303 8-719-123-82 s DIODE 1SS303 8-719-123-85 s DIODE 1SS304
lpc lpc lpc	Part No. SP Description A-6727-375-A o MOUNTED CIRCUIT BOARD, RP-57AP 3-171-485-02 o SHEET (S), CARD 3-171-485-02 o GUARD, EDGE 7-621-759-45 s +PSW, 2.6X6 4-352-844-01 s PIN, LEAD, COATING 1-535-894-11 o TAB (PC BOARD) 3-179-084-01 s LEVER (R), PC BOARD 3-179-085-01 s LEVER (L), PC BOARD 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC, CHIP 10PF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC, CHIP 10PF 50V 1-164-004-11 s CERAMIC, CHIP 10PF 50V 1-164-004-11 s CERAMIC, CHIP 10PF 50V 1-163-033-00 s CERAMIC, CHIP 10PF 50V 1-163-227-11 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC, CHIP 10PF 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 10PF 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V	IC2 IC102 IC202	1-809-458-11 s HIC (PRE-AMP) 1-809-458-11 s HIC (PRE-AMP) 1-809-458-11 s HIC (PRE-AMP)
C11 C12 C13	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC, CHIP 10PF 50V	IC302 IC701	1-809-458-11 s HIC (PRE-AMP) 8-759-701-75 s IC NJM7805FA
C16 C111	1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC703 IC704 IC705	8-759-168-20 s IC NJM78L09A 8-759-168-20 s IC NJM78L09A 8-759-701-84 s IC NJM7905FA
C112 C113 C116	1-124-584-00 s ELECT 100uF 20% 10V 1-163-227-11 s CERAMIC, CHIP 10PF 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V	IC801 IC811	8-752-052-73 s IC CXA1451M 8-752-052-73 s IC CXA1451M
C211 C212	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-584-00 s ELECT 100uF 20% 10V	L701 L703 L704	1-412-533-21 s INDUCTOR 47uH 1-412-533-21 s INDUCTOR 47uH 1-412-533-21 s INDUCTOR 47uH
C213 C215 C216 C311	1-163-227-11 S CERAMIC, CHIP 107F 50V 1-164-004-11 S CERAMIC 0.1uF 10% 25V 1-164-004-11 S CERAMIC 0.1uF 10% 25V	L802 L802	1-410-482-31 s INDUCTOR 100uH 1-410-482-31 s INDUCTOR 100uH 8-729-117-72 s TRANSISTOR 2SC4178
C312	1-124-584-00 s ELECT 100uF 20% 10V	Q304	8-729-117-72 s TRANSISTOR 2SC4178
C313 C315 C316 C701 C702	1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	R20 R24 R25 R26	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W
C703 C704 C705 C706 C712	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	R28 R119 R120 R124 R125	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-001-00 s METAL, CHIP 10 5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
C713 C714 C715 C716 C717	1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	R126 R127 R219 R220 R222	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-001-00 s METAL, CHIP 10 5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
C718 C719 C720 C721 C722	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V	R223 R224 R225 R226 R228	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
C723 C724 C725 C801 C802	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-126-101-11 s ELECT 100uF 20% 16V	R319 R320 R322 R323 R324	1-216-001-00 s METAL, CHIP 10 5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W
C803 C804 C805 C811 C812	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	R325 R326 R327 R801 R802	1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W
C815	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	R811 R812	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W
CN1 CN2 CN101	1-506-468-11 o CONNECTOR 3P, MALE 1-506-468-11 o CONNECTOR 3P, MALE 1-506-468-11 o CONNECTOR 3P, MALE	R901 R902 R903	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W

(RP-57AP	BOARD)	SS-48P B	OARD
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
R904 R905 R906	1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W	lpc lpc lpc lpc	A-6717-637-A o MOUNTED CIRCUIT BOARD, SS-48P 3-171-453-03 o PLATE (L), SHIELD, CARD 3-171-454-02 o SHEET (L), CARD 7-621-759-45 s +PSW, 2.6X6
RV4 RV104	1-238-804-11 s RES, ADJ, CERMET 50K 1-238-804-11 s RES, ADJ, CERMET 50K	lpc lpc	3-179-084-01 s LEVER (R), PC BOARD 3-179-085-01 s LEVER (L), PC BOARD
RV204 RV304	1-238-804-11 s RES, ADJ, CERMET 50K 1-238-804-11 s RES, ADJ, CERMET 50K	C1	1-163-091-00 s CERAMIC, CHIP 8PF 50V
T2 T102 T202 T302	1-423-658-11 s TRANSFORMER, RF INPUT 1-423-658-11 s TRANSFORMER, RF INPUT 1-423-657-11 s TRANSFORMER, RF INPUT 1-423-657-11 s TRANSFORMER, RF INPUT	C2 C3 C4 C5	1-163-091-00 s CERAMIC, CHIP 8PF 50V 1-131-347-00 s TANTALUM 1uF 10% 35V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
TR2 TR3	8-766-000-18 s TRANSISTOR 2SK613-24-T8 8-766-000-18 s TRANSISTOR 2SK613-24-T8	C6 C7 C9 C10 C11	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
SE-186 F	BOARD	C12 C14	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
Ref. No. or Q'ty	Part No. SPDescription	C15 C101 C102	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
2pcs 2pcs	1-646-129-11 o PRINTED CIRCUIT BOARD, SE-186 1-807-683-11 s RESISTOR ELEMENT	C103	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V
C1	1-126-101-11 s ELECT 100uF 20% 16V	C104 C105 C106 C107	1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V 1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V 1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V 1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V
		C108 C109 C116 C117 C118	1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V 1-163-110-00 s CERAMIC, CHIP 51PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022\mathbf{v} 50V 1-163-033-00 s CERAMIC, CHIP 0.022\mathbf{v} 50V 1-163-033-00 s CERAMIC, CHIP 0.022\mathbf{v} 50V
		C119 C120 C121 C126 C127	1-163-033-00 s CERAMIC, CHIP 0.022\F 50V 1-163-033-00 s CERAMIC, CHIP 0.022\F 50V
		C301 C302 C304 C401 C402	1-163-033-00 s CERAMIC, CHIP 0.022\F 50V 1-163-033-00 s CERAMIC, CHIP 0.022\F 50V
		C403 C404 C405 C406 C407	1-163-033-00 s CERAMIC, CHIP 0.022 F 50V 1-163-033-00 s CERAMIC, CHIP 0.022 F 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5 50V 1-131-342-00 s TANTALUM 0.15 F 10% 3 5V
		C408 C409 C410 C411 C412	1-163-033-00 s CERAMIC, CHIP 0.022\F 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5 % 50V 1-163-235-11 s CERAMIC, CHIP 22PF % 50V 1-163-235-11 s CERAMIC, CHIP 22PF % 50V 1-163-033-00 s CERAMIC, CHIP 0.022\F 50V

C413 C414 C415 C416 C417

C418 C423

1-163-033-00 s CERAMIC, CHIP 0.022F 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022F 50V 1-163-033-00 s CERAMIC, CHIP 0.022F 50V 1-163-033-00 s CERAMIC, CHIP 0.022F 50V

1--163--033--00 s CERAMIC, CHIP 0.022 F 50V 1--124--907--11 s ELECT 10uF 20% 50V

C625

(SS-48P)	BOARD)	(SS-48P B	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
CN1 CN139 CN140 CN141	1-506-484-11 s CONNECTOR 5P, MALE 1-573-600-21 s CONNECTOR, PHEC (PLUG)100P, MALE 1-573-600-21 s CONNECTOR, PHEC (PLUG)100P, MALE 1-573-600-21 s CONNECTOR, PHEC (PLUG)100P, MALE	IC106 IC107 IC301 IC302 IC303	8-759-926-32 s IC AM26LS32PC 8-759-926-30 s IC AM26LS30PC 8-759-095-41 s IC CXD8176AQ 8-759-938-68 s IC CXD1095Q 8-759-054-54 s IC SRM2016M10
CNI7	1-526-660-21 s SOCKET, IC 32P	IC401	8-759-095-41 s IC CXD8176AQ
CNI607	1-526-660-21 s SOCKET, IC 32P	IC402	8-759-043-35 s IC CXD8311Q
COP1 COP2 COP3 COP4	1-565-413-11 o PLUG, SHORTING 2P 1-565-413-11 o PLUG, SHORTING 2P 1-565-413-11 o PLUG, SHORTING 2P 1-565-413-11 o PLUG, SHORTING 2P	IC403 IC404 IC405	8-759-099-99 s IC TMP91C640N-2306 8-759-009-51 s IC MC14538BF 8-759-500-93 s IC MB90061-111
COR1		IC406 IC407 IC408	8-759-054-54 s IC SRM2016M10 8-759-926-77 s IC SN74HC541ANS 8-759-708-05 s IC NJM78L05A
CV401	1-141-390-11 s CAP, TRIMMER 90PF	IC410	8-759-700-43 s IC NJM4558M
CV402	1-141-245-00 s TRIMMER, CERAMIC 30PF	IC411	8-759-908-17 s IC TL082CPS
D101	8-719-941-23 s DIODE DA204U	IC412	8-759-700-45 s IC NJM4556M-A
D102	8-719-941-23 s DIODE DA204U	IC413	8-759-700-07 s IC NJM2903M
D401	8-719-941-23 s DIODE DA204U	IC414	8-759-927-46 s IC SN74HC00ANS
D402	8-719-941-23 s DIODE DA204U	IC415	8-759-908-17 s IC TL082CPS
D403	8-719-941-23 s DIODE DA204U	IC501	8-759-944-79 s IC CXD1132Q
D404	8-719-941-23 s DIODE DA204U	IC502	8-759-925-76 s IC SN74HC08ANS
D405	8-719-941-23 s DIODE DA204U	IC504	8-759-925-85 s IC SN74HC32ANS
D406	8-719-941-23 s DIODE DA204U	IC505	8-759-009-51 s IC MC14538BF
D601	8-719-941-23 s DIODE DA204U	IC506	8-759-300-71 s IC HD14053BFP
D602	8-719-941-23 s DIODE DA204U	IC507	8-759-009-02 s IC MC14046BF
D603	8-719-941-23 s DIODE DA204U	IC508	8-759-925-76 s IC SN74HC08ANS
D604	8-719-941-23 s DIODE DA204U	IC510	8-759-926-18 s IC SN74HC157ANS
D605	8-719-941-23 s DIODE DA204U	IC511	8-759-938-68 s IC CXD1095Q
D606	8-719-941-23 s DIODE DA204U	IC514	8-759-927-29 s IC SN74HCU04ANS
D607	8-719-941-23 s DIODE DA204U	IC601	8-759-100-94 s IC UPC358G2
D608	8-719-941-23 s DIODE DA204U	IC602	8-759-009-05 s IC MC14051BF
D609	8-719-941-23 s DIODE DA204U	IC603	8-759-100-94 s IC UPC358G2
D610	8-719-941-23 s DIODE DA204U	IC604	8-759-323-88 s IC HD6435328RA00F
D611	8-719-941-23 s DIODE DA204U	IC605	8-759-925-76 s IC SN74HC08ANS
D612	8-719-941-23 s DIODE DA204U	IC606	8-759-925-85 s IC SN74HC32ANS
D613	8-719-941-23 s DIODE DA204U	IC607	8-759-189-01 s IC C010-PW2000SV-V240
D614	8-719-941-23 s DIODE DA204U	IC608	8-759-926-11 s IC SN74HC138ANS
D615	8-719-941-23 s DIODE DA204U	IC609	8-759-926-11 s IC SN74HC138ANS
D616	8-719-123-82 s DIODE 1SS303	IC610	8-759-925-79 s IC SN74HC11ANS
D701	8-719-938-72 s DIODE SB01-05CP	IC611	8-759-925-83 s IC SN74HC27ANS
D702 D703 D801	8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U 8-719-941-23 s DIODE DA204U	IC612 IC613 IC615 IC616	8-759-054-54 s IC SRM2016M10 8-759-925-74 s IC TC74HC04NS 8-759-938-68 s IC CXD1095Q 8-759-300-71 s IC HD14053BFP
IC1	8-759-151-97 s IC UPD70320GJ-8-5BG	IC618	8-759-926-77 s IC SN74HC541ANS
IC2	8-759-926-77 s IC SN74HC541ANS	IC619	8-759-926-77 s IC SN74HC541ANS
IC3	8-759-925-74 s IC TC74HC04NS	IC620	8-759-926-49 s IC SN74HC245ANS
IC4	8-759-603-32 s IC M51958BL	IC621	8-759-300-71 s IC HD14053BFP
IC5	8-759-043-34 s IC CXD8310M	IC622	8-759-009-51 s IC MC14538BF
IC6	8-752-352-61 s IC MS62256CLL-10FC	IC701	8-752-343-05 s IC CXD2202Q
IC7	8-759-270-97 s IC C010-PW2000SY-V303	IC702	8-759-300-71 s IC HD14053BFP
IC8	8-759-925-90 s IC SN74HC74ANS	IC703	8-759-239-23 s IC TC74HC86AF
IC10	8-759-925-85 s IC SN74HC32ANS	IC704	8-759-700-07 s IC NJM2903M
IC11	8-759-925-76 s IC SN74HC08ANS	IC706	8-759-095-41 s IC CXD8176AQ
IC15	8-759-925-80 s IC SN74HC14ANS	IC707	8-759-054-54 s IC SRM2016M10
IC101	8-759-109-04 s IC UPD7201AC	IC709	8-759-925-76 s IC SN74HC08ANS
IC102	8-759-009-10 s IC MC14069UBF	IC710	8-752-852-92 s IC CXP80116-891Q
IC103	8-759-926-17 s IC SN74HC153ANS	IC711	8-759-100-95 s IC UPC324G2
IC104	8-759-925-85 s IC SN74HC32ANS	IC801	8-759-100-95 s IC UPC324G2
IC105	8-759-926-30 s IC AM26LS30PC		

(SS-48P BOARD)

Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
IC802 IC803 IC804 IC805 IC806	8-759-141-05 s IC UPC4574G2 8-759-008-67 s IC MC14066BF 8-759-908-17 s IC TL082CPS 8-759-710-28 s IC NJM4565M-A 8-759-009-51 s IC MC14538BF	R17 R18 R19 R20 R21	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
IC807 IC808 IC809 IC810	8-759-938-68 s IC CXD1095Q 8-759-908-17 s IC TL082CPS 8-759-925-90 s IC SN74HC74ANS 8-759-700-07 s IC NJM2903M	R22 R23 R24 R25 R26	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
L401 L602 L603	1-410-464-11 s INDUCTOR 3.3uH 1-412-533-21 s INDUCTOR 47uH 1-412-533-21 s INDUCTOR 47uH	R27 R28 R29	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-208-811-11 s METAL 16K 0.5% 1/10W
Q401 Q402 Q403	8-729-905-12 s TRANSISTOR DTA144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-905-12 s TRANSISTOR DTA144EU	R30 R51 R52	1-216-688-11 s METAL, CHIP 36K 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q404 Q405 Q406	8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-117-72 s TRANSISTOR 2SC4178	R53 R54 R55 R56	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q407 Q408 Q409 Q410	8-729-117-72 s TRANSISTOR 2SC4178 8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-905-18 s TRANSISTOR DTC144EU	R57 R58	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
Q411 Q412 Q604	8-729-109-44 s TRANSISTOR 2SK94-X4 8-729-117-32 s TRANSISTOR 2SC4177 8-729-106-68 s TRANSISTOR 2SD1615A-GP	R59 R60 R61	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q 605 Q 606 Q 701	8-729-106-60 s TRANSISTOR 2SB1115A 8-729-117-72 s TRANSISTOR 2SC4178 8-729-905-18 s TRANSISTOR DTC144EU	R62 R63 R64 R65	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
Q702 Q703 Q704 Q705	8-729-905-18 s TRANSISTOR DTC144EU 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177	R67 R68 R69	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
Q706 Q707 Q 708	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 8-729-905-18 s TRANSISTOR DTC144EU	R70 R71 R72	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
Q709 Q710 Q711	8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU 8-729-905-18 s TRANSISTOR DTC144EU	R73 R74 R75 R101	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
Q801 Q802 Q803 Q805	8-729-905-18 s TRANSISTOR DTC144EU 8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-209-07 s TRANSISTOR 2SC4213-B 8-729-905-18 s TRANSISTOR DTC144EU	R102 R103 R104	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R1 R2 R3	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R105 R106 R107	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R4 R 5	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R108 R109 R111 R112	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R6 R7 R8 R9	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R113 R114	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R10 R11 R12	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R115 R116 R117 R118	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W
R13 R14 R15	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R119 R120 R121	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R16	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R122	1-216-077-00 s METAL, CHIP 15K 5% 1/10W

R702 R703

R612

(SS-48P BOARD)

Ref. No.		Ref. No.	
or Q'ty	Part No. SPDescription	or Q'ty	Part No. SPDescription
R704	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R763	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R705	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R764	
R706	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R765	
R707	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R766	
R708	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R767	
R709	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R768	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R710	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R769	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R711	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R770	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R712	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R771	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R713	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R772	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R714	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R773	1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R715	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R774	
R716	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R775	
R717	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R776	
R718	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R777	
R719	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R778	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R720	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R779	
R721	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R780	
R722	1-216-109-00 s METAL, CHIP 330K 5% 1/10W	R781	
R723	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R782	
R724	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R783	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R725	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R784	
R726	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R785	
R727	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R786	
R728	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R787	
R729	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R788	1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R730	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R789	
R731	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R790	
R732	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R791	
R733	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R792	
R734	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R793	1-216-089-91 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R735	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R794	
R736	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R795	
R737	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R796	
R738	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R797	
R739	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R798	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R740	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R799	
R741	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R800	
R742	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R801	
R743	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R802	
R744	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R803	1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R745	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R804	
R746	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R805	
R747	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R806	
R748	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R807	
R749 R750 R751 R752 R753	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R808 R809 R810 R811 R812	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R754	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W	R813	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R755		R814	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R756		R815	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R757		R816	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R758		R817	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R759	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R818	1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R760	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R819	
R761	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R820	
R762	1-216-089-00 s METAL, CHIP 47K 5% 1/10W	R822	

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(SS-48P BOARD)
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Ref. No. or Q'ty	Part No. SPDescription
R823	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R825	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
R826	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R827	1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R828	1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R829	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R830	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R831	1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R832	1-216-105-00 s METAL, CHIP 22OK 5% 1/10W
R833	1-216-121-00 s METAL, CHIP 1M 5% 1/10W
R836	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R837	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R838	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R839	1-216-001-00 s METAL, CHIP 10 5% 1/10W
R840	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R841 R842 R843 R844 R845	1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R846	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R847	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R848	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R849	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R850	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R851	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R852	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R853	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R854	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R855	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R856	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R857	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R858	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R859	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R860	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R861	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R862	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R863	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R864	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R865	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R866 R867 R868 R869 R870	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R871	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R872	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R873	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R874	1-216-089-00 s METAL, CHIP 47K 5% 1/10W
R875	1-216-295-00 s METAL, CHIP 0 5% 1/10W
R876 R877 R878 R879 R880	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R881 R882 R883 R900	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W

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Ref. No. or Q'ty	Part No. SPDescription
S1	1-553-812-00 s SWITCH, PUSH
S2	1-570-623-11 s SWITCH, DIP 8-CKT
S302	1-553-812-00 s SWITCH, PUSH
S303	1-553-812-00 s SWITCH, PUSH
S304	1-553-812-00 s SWITCH, PUSH
S601	1-570-623-11 s SWITCH, DIP 8-CKT
S602	1-553-812-00 s SWITCH, PUSH
X1	1-577-076-11 s VIBRATOR, CRYSTAL 16.000MHz
X101	1-567-870-11 s VIBRATOR, CERAMIC 614KHz
X401	1-567-132-21 s VIBLATOR, CERAMIC 8.00MHz
X402	1-579-458-11 s VIBRATOR, CRYSTAL 17.734475MHz
X501	1-567-867-11 s VIBRATOR, CRYSTAL 14.500MHz
X601	1-577-121-11 s VIBRATOR, CRYSTAL 20.0MHz
X701	1-577-121-11 s VIBRATOR, CRYSTAL 20.0MHz
X702	1-577-076-11 s VIBRATOR, CRYSTAL 16.000MHz

SW-444A BOARD

Ref. No.	
	Part No. SPDescription
lpc lpc lpc	1-640-043-21 o PRINTED CIRCUIT BOARD, SW-444A 3-171-416-01 o HOLDER, LED 3-717-672-01 o STOPPER, KY
C1	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
CN512	
D4	8-719-820-28 s LED TLG256, GRN 8-719-820-28 s LED TLG256, GRN 8-719-820-28 s LED TLG256, GRN 8-719-820-28 s LED TLG256, GRN 8-719-820-28 s LED TLG256, GRN
D6 D7	8-719-820-27 s LED TLY256, GRN 8-719-820-27 s LED TLY256, GRN
R1 R2 R3 R4 R5	1-249-411-11 s CARBON 330 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W
SW1 SW4	1-516-995-00 s SWITCH, LEVER SLIDE 1-516-961-00 s SWITCH, LEVER SLIDE

TBC-18P I	BOARD .	(TBC-18 B	OARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
lpc lpc lpc lpc 3pcs	A-6727-378-B o MOUNTED CIRCUIT BOARD, TBC-18P 3-171-453-03 o PLATE (L), SHIELD, CARD 3-171-454-02 o SHEET (L), CARD 7-621-759-45 s +PSW, 2.6X6 1-750-484-11 s BUSBAR	C208 C209 C210 C219 C221	1-163-035-00 s CERAMIC, CHIP 0.047uF 50V 1-124-903-11 s ELECT 1uF 20% 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
lpc lpc	3-179-084-01 s LEVER (R), PC BOARD 3-179-085-01 s LEVER (L), PC BOARD	C222 C224 C225	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C1 C2 C3 C4	1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	C226 C227 C228	1-126-176-11 s ELECT 220uF 20% 10V 1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V
C5 C6	1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	C229 C231 C300	1-124-907-11 s ELECT 10uF 20% 50V 1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C7 C8 C9 C10	1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C302 C303 C304	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V
C11 C12	1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	C305 C306 C307	1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C13 C14 C15	1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	C308 C309 C310	1-124-903-11 s ELECT 1uF 20% 50V 1-124-903-11 s ELECT 1uF 20% 50V 1-124-927-11 s ELECT 4.7uF 20% 50V
C16 C17 C18 C19	1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-126-101-11 s ELECT 100uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V	C311 C312 C313	1-164-004-11 s CERAMIC 0. luF 10% 25V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C20 C100	1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C314 C315 C316 C318	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V 1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-124-477-11 s ELECT 47uF 20% 16V
C101 C102 C103 C104	1-124-477-11 s ELECT 47uF 20% 16V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C319 C320 C321	1-163-033-00 s CERAMIC. CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C105 C106 C107	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	C322 C323	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C108 C109	1-163-035-00 s CERAMIC, CHIP 0.047uF 50V 1-124-903-11 s ELECT 1uF 20% 50V 1-124-907-11 s ELECT 10uF 20% 50V	C324 C325 C326 C327	1-163-037-11 s CERAMIC, CHIP 0.022u 10% 25V 1-164-004-11 s CERAMIC 0.1uF 10% 25V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
C110 C119 C120 C121	1-124-477-11 s ELECT 47uF 20% 16V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C328 C329	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V
C122 C124 C126	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C330 C331 C333 C334	1-126-101-11 s ELECT 100uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-907-11 s ELECT 10uF 20% 50V 1-124-925-11 s ELECT 2.2uF 20% 50V
C127 C128 C129	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-126-176-11 s ELECT 22OuF 20% 10V 1-124-477-11 s ELECT 47uF 20% 16V	C335 C336 C337	1-164-489-11 s CERAMIC 0.22uF 10% 16V 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V 1-124-927-11 s ELECT 4.7uF 20% 50V
C130 C131 C132	1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-124-907-11 s ELECT 10uF 20% 50V	C338 C339	1-164-489-11 s CERAMIC 0.22uF 10% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C200 C201	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	C340 C341 C342 C344	1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022u 50V 1-163-009-11 s CERAMIC, CHIP 0.001u 10% 50V
C2O2 C2O3 C2O4 C2O5	1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C345 C346	1-163-033-00 s CERAMIC, CHIP 0.022w 50V 1-163-033-00 s CERAMIC, CHIP 0.022w 50V
C206 C207	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	C347 C348 C349	1-163-033-00 s CERAMIC, CHIP 0.022u 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022u 50V

(TBC-18P	BOARD)	(TBC-18P BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription
C350 C351 C352 C353 C357	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	C434 1-163-809-11 s CERAMIC, CHIP 0.047uF 10% 25V C435 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C436 1-124-477-11 s ELECT 47uF 20% 16V C437 1-124-477-11 s ELECT 47uF 20% 16V C438 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C358 C359 C360 C361 C362	1-124-925-11 s ELECT 2.2uF 20% 50V 1-124-927-11 s ELECT 4.7uF 20% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V	C440
C363 C364 C365 C366 C371	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	C445
C372 C373 C374 C375 C376	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V	C451 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C452 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C453 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V C454 1-124-925-11 s ELECT 2.2uF 20% 50V C455 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C377 C378 C379 C380 C381	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-126-101-11 s ELECT 100uF 20% 16V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C456
C382 C383 C384 C385 C400	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C462 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C463 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C464 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C467 1-124-477-11 s ELECT 47uF 20% 16V C468 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C401 C402 C403 C404 C405	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-245-11 s CERAMIC, CHIP 56PF 5% 50V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V	C469 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C470 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C471 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V C472 1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V C473 1-164-232-11 s CERAMIC 0.01uF 10% 50V
C406 C407 C408 C410 C411	1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-903-11 s ELECT 1uF 20% 50V 1-164-232-11 s CERAMIC 0.01uF 10% 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V	C474 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C475 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C476 1-126-101-11 s ELECT 100uF 20% 16V C477 1-124-903-11 s ELECT 1uF 20% 50V C478 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C412 C414 C415 C417 C418	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-163-106-00 s CERAMIC, CHIP 36PF 5% 50V 1-163-120-00 s CERAMIC, CHIP 130PF 5% 50V	C479 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C500 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C501 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C502 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C503 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C419 C420 C421 C422 C423	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C504 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C505 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C506 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C507 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C508 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C424 C426 C427 C428 C429	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-164-004-11 s CERAMIC 0.1uF 10% 25V	C509 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C510 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C511 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C512 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C513 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C430 C431 C432 C433	1-126-101-11 s ELECT 100uF 20% 16V 1-124-907-11 s ELECT 10uF 20% 50V 1-124-925-11 s ELECT 2.2uF 20% 50V 1-164-489-11 s CERAMIC 0.22uF 10% 16V	C514 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C515 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C516 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C517 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V

(TBC-18P	BOARD)	(TBC-18P	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
C773	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D307	8-719-123-82 s DIODE 1SS303
C774	1-164-004-11 s CERAMIC 0.1uF 10% 25V	D308	8-719-123-85 s DIODE 1SS304
C775	1-164-004-11 s CERAMIC 0.1uF 10% 25V	D309	8-719-123-82 s DIODE 1SS303
C778	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D402	8-719-941-23 s DIODE DA204U
C779	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D403	8-719-915-30 s DIODE VARICAP FC53M
C780	1-164-004-11 s CERAMIC 0.1uF 10% 25V	D404	8-719-915-30 s DIODE VARICAP FC53M
C781	1-164-004-11 s CERAMIC 0.1uF 10% 25V	D406	8-719-123-82 s DIODE 1SS303
C782	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D407	8-719-105-38 s DIODE RD3.0M-B1
C783	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D408	8-719-123-82 s DIODE 1SS303
C784	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D500	8-719-123-85 s DIODE 1SS304
C785	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D501	8-719-123-82 s DIODE 1SS303
C786	1-124-477-11 s ELECT 47uF 20% 16V	D502	8-719-123-82 s DIODE 1SS303
C788	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	D503	8-719-123-82 s DIODE 1SS303
C789	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	D504	8-719-123-82 s DIODE 1SS303
C790	1-124-477-11 s ELECT 47uF 20% 16V	D506	8-719-123-82 s DIODE 1SS303
C791	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	D600	8-719-123-82 s DIODE 1SS303
C793	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D601	8-719-123-82 s DIODE 1SS303
C794	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D602	8-719-123-82 s DIODE 1SS303
C795	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D700	8-719-123-82 s DIODE 1SS303
C796	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	D701	8-719-123-82 s DIODE 1SS303
C797	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D702	8-719-123-82 s DIODE 1SS303
C798	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D706	8-719-123-82 s DIODE 1SS303
C799	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL1	1-236-129-11 s ENCAPSULATED COMPONENT
C800	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL2	1-236-129-11 s ENCAPSULATED COMPONENT
C801	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL3	1-236-129-11 s ENCAPSULATED COMPONENT
C802 C803 C804	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	FL500 FL501	1-239-134-21 s FILTER, LOW PASS 1-239-136-21 s FILTER, LOW PASS
C805 C806	1-124-477-11 s ELECT 47uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V	FL502 FL600 FL700	1-239-136-21 s FILTER, LOW PASS 1-236-091-11 s FILTER, LOW PASS 1-236-091-11 s FILTER, LOW PASS
C807	1-124-903-11 s ELECT 1uF 20% 50V		8-759-701-84 s IC NJM7905FA
C809	1-164-004-11 s CERAMIC 0.1uF 10% 25V		8-759-701-75 s IC NJM7805FA
C810	1-164-232-11 s CERAMIC 0.01uF 10% 50V		8-759-701-75 s IC NJM7805FA
C811	1-164-232-11 s CERAMIC 0.01uF 10% 50V		8-759-701-75 s IC NJM7805FA
C815	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V		8-759-701-84 s IC NJM7905FA
C816	1-124-477-11 s ELECT 47uF 20% 16V	IC6	8-759-168-20 s IC NJM78L09A
C819	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC7	
C820	1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	IC8	
C871	1-124-903-11 s ELECT 1uF 20% 50V	IC9	
CN1 CN2 CN105 CN106	1-564-005-11 o CONNECTOR 6P, MALE 1-564-005-11 o CONNECTOR 6P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE 1-573-600-21 s CONNECTOR, PHEC 100P, MALE	IC100 IC102 IC103	8-759-030-74 s IC SČ14S66FER 8-759-908-17 s IC TL082CPS 8-759-908-15 s IC TL431CLP
CP700 CP701	1-760-268-11 s VCO, CRYSTAL 17.734475MHz 1-760-265-11 s VCO, CRYSTAL 13.5MHz	IC104 IC105 IC200	8-752-334-55 s IC CXD1175AM 8-759-702-08 s IC NJM360M 8-759-030-74 s IC SC14S66FER
D1	8-719-941-04 s DIODE SB007-03CP	IC201	8-759-908-17 s IC TL082CPS
D2	8-719-941-04 s DIODE SB007-03CP	IC203	8-759-908-15 s IC TL431CLP
D3	8-719-941-04 s DIODE SB007-03CP	IC204	8-752-334-55 s IC CXD1175AM
D4	8-719-941-04 s DIODE SB007-03CP	IC300	8-759-700-43 s IC NJM4558M
D100	8-719-941-23 s DIODE DA204U	IC301	8-752-339-03 s IC CXD2207Q
D101	8-719-123-85 s DIODE 1SS304	IC302	8-759-700-43 s IC NJM4558M
D200	8-719-941-23 s DIODE DA204U	IC303	8-759-907-81 s IC SN74LS221NS
D300	8-719-123-82 s DIODE 1SS303	IC304	8-759-941-17 s IC SN74LS06NS
D301	8-719-941-23 s DIODE DA204U	IC305	8-759-908-17 s IC TL082CPS
D302	8-719-915-30 s DIODE VARICAP FC53M	IC306	8-759-030-74 s IC SC14S66FER
D303	8-719-915-30 s DIODE VARICAP FC53M	IC307	8-759-973-82 s IC TLC549IPS
D305	8-719-123-82 s DIODE 1SS303	IC308	8-759-991-85 s IC 74F00SJX
D306	8-719-105-38 s DIODE RD3.0M-B1	IC309	8-759-711-52 s IC NJU8001M

(TBC-18P	BOARD)	(TBC-18P	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
IC310	8-759-700-43 s IC NJM4558M	IC712	8-759-700-43 s IC NJM4558M
IC311	8-759-700-43 s IC NJM4558M	IC713	8-759-908-15 s IC TL431CLP
IC312	8-759-941-27 s IC MB4002PF	IC714	8-759-239-55 s IC TC74HC123AF
IC313	8-759-702-08 s IC NJM360M	IC715	8-759-250-81 s IC TC5081AP
IC401	8-759-700-43 s IC NJM4558M	IC716	8-759-300-71 s IC HD14053BFP
IC402	8-752-339-03 s IC CXD2207Q	IC717	8-759-041-53 s IC MC68HC05N4-SC406682
IC403	8-759-907-81 s IC SN74LS221NS	IC718	8-752-335-47 s IC CXD1216M
IC404	8-759-941-17 s IC SN74LS06NS	IC719	8-759-925-90 s IC SN74HC74ANS
IC405	8-759-908-17 s IC TL082CPS	IC720	8-759-239-55 s IC TC74HC123AF
IC406	8-759-030-74 s IC SC14S66FER	IC721	8-759-926-35 s IC SN74HC191NS
IC407	8-759-973-82 s IC TLC549IPS	IC722	8-759-519-49 s IC CXD8165Q
IC408	8-759-991-85 s IC 74F00SJX	IC723	8-752-334-64 s IC CXD1171M
IC409	8-759-711-52 s IC NJU8001M	IC724	8-752-334-64 s IC CXD1171M
IC410	8-759-700-43 s IC NJM4558M	IC725	8-759-702-08 s IC NJM360M
IC411	8-759-030-74 s IC SC14S66FEL	IC726	8-759-300-71 s IC FD14053BFP
IC412	8-759-926-24 s IC SN74HC164ANS	IC727	8-752-052-77 s IC CXA1450M
IC413	8-759-700-43 s IC NJM4558M	IC728	8-759-980-04 s IC LM311PS
IC414	8-759-941-27 s IC MB4002PF	IC729	8-752-052-77 s IC CXA1450M
IC415	8-759-702-08 s IC NJM360M	IC800	8-759-925-76 s IC SN74HC08ANS
IC500	8-759-930-50 s IC SN74LS157NS	IC801	8-759-031-84 s IC TC7S04F
IC501 IC502	8-759-055-71 s IC CXD8313Q 8-759-055-71 s IC CXD8313Q	IC802	8-759-031-84 s IC TC7S04F
IC502 IC503 IC504 IC505	8-752-340-75 s IC CXK1206AM 8-752-340-75 s IC CXK1206AM 8-752-340-75 s IC CXK1206AM	L1 L2 L3	1-412-533-21 s INDUCTOR 47uH 1-412-533-21 s INDUCTOR 47uH 1-412-533-21 s INDUCTOR 47uH
IC506	8-752-340-75 s IC CXK1206AM	Q404	8-729-117-32 s TRANSISTOR 2SC4177
IC507	8-752-341-32 s IC CXD2209Q	Q405	8-729-117-32 s TRANSISTOR 2SC4177
IC508	8-759-513-78 s IC CXD8160Q	Q406	8-729-117-32 s TRANSISTOR 2SC4177
IC509	8-759-300-71 s IC HD14053BFP	Q407	8-729-140-63 s TRANSISTOR 2SC4177
IC510	8-759-700-43 s IC NJM4558M	Q408	8-729-117-32 s TRANSISTOR 2SC4177
IC511	8-759-700-43 s IC NJM4558M	Q428	8-729-140-47 s TRANSISTOR 2SC3735-E34
IC512	8-759-700-43 s IC NJM4558M	Q500	8-729-117-32 s TRANSISTOR 2SC4177
IC513	8-752-352-34 s IC CXD1171M-1	Q501	8-729-140-63 s TRANSISTOR 2SA1611-N5M6
IC514	8-752-052-77 s IC CXA1450M	Q502	8-729-117-32 s TRANSISTOR 2SC4177
IC515	8-752-352-34 s IC CXD1171M-1	Q503	8-729-117-32 s TRANSISTOR 2SC4177
IC516	8-752-352-34 s IC CXD1171M-1	Q600	8-729-905-18 s TRANSISTOR DTC144EU
IC517	8-752-340-57 s IC CXK1203Q	Q601	8-729-905-18 s TRANSISTOR DTC144EU
IC518	8-752-340-57 s IC CXK1203Q	Q602	8-729-905-18 s TRANSISTOR DTC144EU
IC601	8-752-334-64 s IC CXD1171M	Q700	8-729-117-32 s TRANSISTOR 2SC4177
IC602	8-759-702-08 s IC NJM360M	Q702	8-729-117-32 s TRANSISTOR 2SC4177
IC603	8-759-239-23 s IC TC74HC86AF	Q703	8-729-140-63 s TRANSISTOR 2SA1611-N5M6
IC605	8-752-306-51 s IC CX23065A	Q704	8-729-118-56 s TRANSISTOR 2SK852-X2
IC607	8-759-030-74 s IC SC14S66FEL	Q705	8-729-118-56 s TRANSISTOR 2SK852-X2
IC608	8-759-908-17 s IC TL082CPS	Q706	8-729-117-32 s TRANSISTOR 2SC4177
IC609	8-759-100-93 s IC UPC393G2	Q707	8-729-117-32 s TRANSISTOR 2SC4177
IC610	8-759-239-55 s IC TC74HC123AF	Q708	8-729-117-32 s TRANSISTOR 2SC4177
IC611	8-759-925-90 s IC SN74HC74ANS	Q709	8-729-117-32 s TRANSISTOR 2SC4177
IC612	8-759-925-90 s IC SN74HC74ANS	Q714	8-729-117-32 s TRANSISTOR 2SC4177
IC613	8-759-925-72 s IC SN74HC02ANS	Q715	8-729-117-32 s TRANSISTOR 2SC4177
IC700	8-759-300-71 s IC HD14053BFP	Q717	8-729-117-32 s TRANSISTOR 2SC4177
IC701 IC702 IC703 IC704	8-759-925-74 s IC SN74HC04ANS 8-759-908-15 s IC TL431CLP 8-759-009-05 s IC MC14051BF 8-752-052-73 s IC CXA1451M 8-759-700-43 s IC NJM4558M	Q718 Q719 R100 R101	8-729-117-32 s TRANSISTOR 2SC4177 8-729-117-32 s TRANSISTOR 2SC4177 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
IC705 IC707 IC709 IC710 IC711	8-759-908-17 s IC TL082CPS 8-759-908-17 s IC TL082CPS 8-759-908-17 s IC TL082CPS 8-759-105-49 s IC UPC319G2 8-759-702-08 s IC NJM360M	R103 R104 R105 R106	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-629-11 s METAL, CHIP 120 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W

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Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription
R107 R108 R109 R111 R112	1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R326 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W R327 1-216-025-00 s METAL, CHIP 100 5% 1/10W R329 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W R330 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R331 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R113 R114 R115 R124 R126	1-216-017-00 s METAL, CHIP 47 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R332 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R333 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R334 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W R337 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W R338 1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W
R127 R128 R129 R130 R131	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-017-00 s METAL, CHIP 47 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W	R339 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R340 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R341 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R342 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W R343 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R132 R133 R134 R200 R201	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-037-00 s METAL, CHIP 330 5% 1/10W 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W	R344 1-216-085-00 s METAL, CHIP 33K 5% 1/10W R345 1-208-789-11 s METAL 2K 0.50% 1/10W R346 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W R347 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R348 1-216-085-00 s METAL, CHIP 33K 5% 1/10W
R203 R204 R205 R206 R207	1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W 1-216-652-11 s METAL, CHIP 1.1K 0.5% 1/10W	R349 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R350 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R351 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R352 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R353 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R208 R209 R210 R211 R212	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R354 1-216-085-00 s METAL, CHIP 33K 5% 1/10W R355 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R356 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R357 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R358 1-216-081-00 s METAL, CHIP 22K 5% 1/10W
R213 R214 R215 R224 R225	1-216-017-00 s METAL, CHIP 47 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W	R359 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R362 1-216-109-00 s METAL, CHIP 330K 5% 1/10W R363 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R364 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W R365 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R226 R227 R228 R300 R301	1-216-017-00 s METAL, CHIP 47 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W	R366 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R367 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R368 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R369 1-216-089-00 s METAL, CHIP 47K 5% 1/10W R370 1-216-037-00 s METAL, CHIP 330 5% 1/10W
R302 R303 R305 R306 R307	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-117-00 s METAL, CHIP 680K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R371 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R372 1-216-041-00 s METAL, CHIP 470 5% 1/10W R373 1-216-041-00 s METAL, CHIP 470 5% 1/10W R374 1-216-295-00 s METAL, CHIP 0 5% 1/10W R375 1-216-033-00 s METAL, CHIP 220 5% 1/10W
R308 R309 R310 R311 R312	1-216-059-00 s METAL, CHIP 2.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-085-00 s METAL, CHIP 33K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R376 1-216-033-00 s METAL, CHIP 220 5% 1/10W R377 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W R378 1-216-097-00 s METAL, CHIP 100K 5% 1/10W R380 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R381 1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R313 R314 R317 R318 R319	1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-017-00 s METAL, CHIP 47 5% 1/10W	R382 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R383 1-216-041-00 s METAL, CHIP 470 5% 1/10W R384 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R385 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R386 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
R320 R321 R323 R325	1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-051-00 s METAL, CHIP 1.2K 5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W	R387 1-216-025-00 s METAL, CHIP 100 5% 1/10W R388 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W R389 1-216-073-00 s METAL, CHIP 10K 5% 1/10W R391 1-216-017-00 s METAL, CHIP 47 5% 1/10W

1-216-025-00 s METAL, CHIP 100 5% 1/10W

R764

1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W

(TBC-18P BOARD)	VP-33AP BOARD
Ref. No. or Q'ty Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription
RV708 1-238-787-11 s RES, ADJ, CERMET 10K RV709 1-238-801-11 s RES, ADJ, CERMET 5K RV710 1-238-787-11 s RES, ADJ, CERMET 10K RV711 1-238-800-11 s RES, ADJ, CERMET 2K	1pc A-6727-374-B o MOUNTED CIRCUIT BOARD, VP-33AP 1pc 3-179-084-01 s LEVER (R), PC BOARD 1pc 3-179-085-01 s LEVER (L), PC BOARD
RV711 1-238-800-11 s RES, ADJ, CERMET 2K S700 1-570-623-11 s SWITCH, DIP 8-CKT	C1
TR-73 BOARD Ref. No.	C6 1-124-477-11 s ELECT 47uF 20% 16V C7 1-124-477-11 s ELECT 47uF 20% 16V C8 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C9 1-124-477-11 s ELECT 47uF 20% 16V
or Q'ty Part No. SPDescription 1pc 1-640-161-11 o PRINTED CIRCUIT BOARD, TR-73	C10 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C11 1-124-477-11 s ELECT 47uF 20% 16V
1pc 3-171-392-01 s HOLDER, DME CN920 1-564-014-11 s CONNECTOR 4P, MALE	C12
SS1 8-745-001-07 s DM-230-1	C21 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
	C22 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C96 1-102-965-00 s CERAMIC 39PF 5% 50V C97 1-102-965-00 s CERAMIC 39PF 5% 50V C99 1-107-591-11 CERAMIC 12PF 5% 500V C102 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
	C104 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C105 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V C111 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C112 1-124-477-11 s ELECT 47uF 20% 16V C120 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
	C121 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C122 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C123 1-163-108-00 s CERAMIC, CHIP 43PF 5% 50V C124 1-163-249-11 s CERAMIC, CHIP 82PF 5% 50V C125 1-163-108-00 s CERAMIC, CHIP 43PF 5% 50V
	C126
	C131
	C136
	C161 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C162 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C163 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C164 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V C165 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
	C166

(VP-33AP	BOARD)	(VP-33AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
C431	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C562	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C432	1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V	C563	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C433	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C564	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C434	1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V	C565	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C435	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C566	1-163-222-11 s CERAMIC, CHIP 5PF 50V
C436	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C567	1-163-222-11 s CERAMIC, CHIP 5PF 50V
C437	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C568	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C438	1-163-136-00 s CERAMIC, CHIP 620PF 5% 50V	C569	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C450	1-163-257-11 s CERAMIC, CHIP 180PF 5% 50V	C571	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C451	1-163-135-00 s CERAMIC, CHIP 560PF 5% 50V	C591	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C461	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C592	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C462	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C593	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C463	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C594	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C464	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C595	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C465	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C596	1-162-714-11 s CERAMIC 150PF 1% 50V
C466	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C597	1-126-103-11 s ELECT 470uF 20% 16V
C467	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C598	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C468	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C599	1-124-927-11 s ELECT 4.7uF 20% 50V
C469	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C600	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V
C470	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C601	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C471	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C602	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C472	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C603	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C473	1-124-477-11 s ELECT 47uF 20% 16V	C604	1-124-477-11 s ELECT 47uF 20% 16V
C474	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C621	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C475	1-124-477-11 s ELECT 47uF 20% 16V	C622	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C507	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C623	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C508	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C624	1-126-103-11 s ELECT 470uF 20% 16V
C509	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C625	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C510	1-124-477-11 s ELECT 47uF 20% 16V	C626	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C511	1-163-133-00 s CERAMIC, CHIP 470PF 5% 50V	C627	1-163-222-11 s CERAMIC, CHIP 5PF 50V
C512	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C628	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C513	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C629	1-124-119-00 s ELECT 330uF 20% 16V
C514	1-124-477-11 s ELECT 47uF 20% 16V	C630	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C515	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C631	1-124-119-00 s ELECT 330uF 20% 16V
C516	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C632	1-126-101-11 s ELECT 100uF 20% 16V
C517	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	C640	1-164-695-11 s CERAMIC 0.0022uF 5% 50V
C518	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	C652	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C519	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C654	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C520	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C655	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C521	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C656	1-126-103-11 s ELECT 470uF 20% 16V
C522	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C657	1-126-103-11 s ELECT 470uF 20% 16V
C523	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C667	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C524	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C668	1-127-518-11 s ELECTSOLID 100uF 20% 16V
C531	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C669	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C532	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C670	1-127-518-11 s ELECTSOLID 100uF 20% 16V
C533	1-124-477-11 s ELECT 47uF 20% 16V	C702	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
C534	1-124-477-11 s ELECT 47uF 20% 16V	C703	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C535	1-163-222-11 s CERAMIC, CHIP 5PF 50V	C704	1-131-353-00 s TANTALUM 10uF 10% 16V
C536	1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V	C705	1-131-353-00 s TANTALUM 10uF 10% 16V
C537	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C706	1-130-491-00 s MYLAR 0.047uF 5% 50V
C538	1-124-477-11 s ELECT 47uF 20% 16V	C707	1-163-227-11 s CERAMIC, CHIP 10PF 50V
C541	1-124-903-11 s ELECT 1uF 20% 50V	C708	1-163-222-11 s CERAMIC, CHIP 5PF 50V
C542	1-124-903-11 s ELECT 1uF 20% 50V	C709	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C543	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V	C710	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V
C544	1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V	C711	1-163-227-11 s CERAMIC, CHIP 10PF 50V
C545	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C712	1-124-477-11 s ELECT 47uF 20% 16V
C546	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C713	1-163-227-11 s CERAMIC, CHIP 10PF 50V
C550	1-163-222-11 s CERAMIC, CHIP 5PF 50V	C714	1-131-353-00 s TANTALUM 10uF 10% 16V
C561	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	C715	1-131-353-00 s TANTALUM 10uF 10% 16V

(VP-33AP	BOARD)	(VP-33AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
C957	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D201	8-719-123-82 s DIODE 1SS303
C958	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D501	8-719-123-82 s DIODE 1SS303
C959	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D502	8-719-123-82 s DIODE 1SS303
C960	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D701	8-719-123-82 s DIODE 1SS303
C961	1-124-477-11 s ELECT 47uF 20% 16V	D702	8-719-105-38 s DIODE RD3.0M-B1
C962	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D703	8-719-123-82 s DIODE 1SS303
C963	1-124-477-11 s ELECT 47uF 20% 16V	D704	8-719-123-82 s DIODE 1SS303
C964	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D705	8-719-941-04 s DIODE SB007-03CP
C965	1-124-477-11 s ELECT 47uF 20% 16V	D706	8-719-941-04 s DIODE SB007-03CP
C966	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D707	8-719-123-82 s DIODE 1SS303
C967	1-124-477-11 s ELECT 47uF 20% 16V	D708	8-719-123-82 s DIODE 1SS303
C968	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	D709	8-719-123-82 s DIODE 1SS303
C969 C970 C971	1-124-477-11 s ELECT 47uF 20% 16V 1-163-033-00 s CERAMIC, CHIP 0.022uF 50V 1-124-477-11 s ELECT 47uF 20% 16V	DL101 DL401	1-415-674-11 s DELAY LINE 35nS 1-415-546-11 s DELAY LINE 50nS
C972	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL201	1-239-161-21 s FILTER, LOW PASS
C973	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL202	1-239-133-21 s FILTER, LOW PASS
C974	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL501	1-239-133-21 s FILTER, LOW PASS
C975	1-124-477-11 s ELECT 47uF 20% 16V	FL502	1-239-063-21 s FILTER, LOW PASS
C976	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	FL701	1-236-070-11 s FILTER, LOW PASS
C977	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC1	8-759-925-74 s IC TC74HC04NS
C978	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC2	8-759-925-74 s IC TC74HC04NS
C979	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC3	8-759-925-72 s IC SN74HC02ANS
C980	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC4	8-759-927-46 s IC SN74HC00ANS
C981	1-124-477-11 s ELECT 47uF 20% 16V	IC5	8-759-925-85 s IC SN74HC32ANS
C982	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC6	8-759-035-93 s IC TC7S32F-TE85L
C983	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC10	8-759-168-20 s IC NJM78L09A
C984	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC11	8-759-701-87 s IC NJM7909FA
C985	1-124-477-11 s ELECT 47uF 20% 16V	IC12	8-759-701-87 s IC NJM7909FA
C991	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC13	8-759-700-07 s IC NJM2903M
C992	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC14	8-759-927-46 s IC SN74HC00ANS
C993	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC101	8-752-052-75 s IC CXA1479Q
C994	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC102	8-759-009-05 s IC MC14051BF
C995	1-124-477-11 s ELECT 47uF 20% 16V	IC103	8-759-300-71 s IC HD14053BFP
C1001	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC104	8-759-908-92 s IC TL084CNS
C1002	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC105	8-759-908-17 s IC TL082CPS
C2001	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC201	8-752-052-48 s IC CXA1370Q
C2002	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC202	8-759-300-71 s IC HD14053BFP
C3001	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC203	8-759-908-17 s IC TL082CPS
C3002	1-163-033-00 s CERAMIC, CHIP 0.022uF 50V	IC204	8-752-052-77 s IC CXA1450M
CN101	1-564-002-11 s CONNECTOR 3P, MALE	IC205	8-759-708-05 s IC NJM78L05A
CN102	1-564-002-11 s CONNECTOR 3P, MALE	IC206	1-809-332-11 s IC H8D7169C
CN103	1-573-600-21 s CONNECTOR, PHEC 100P, MALE	IC401	8-752-052-75 s IC CXA1479Q
CN104	1-573-600-21 s CONNECTOR, PHEC 100P, MALE	IC402	8-759-009-05 s IC MC14051BF
CN203	1-506-467-11 s CONNECTOR 2P, MALE	IC403	8-759-300-71 s IC HD14053BFP
CN204	1-506-467-11 s CONNECTOR 2P, MALE	IC404	8-759-908-92 s IC TL084CNS
CN205	1-506-467-11 s CONNECTOR 2P, MALE	IC501	8-752-052-48 s IC CXA1370Q
CN401	1-564-002-41 s CONNECTOR 3P, MALE	IC502	8-759-300-71 s IC HD14053BFP
CN402	1-564-002-41 s CONNECTOR 3P, MALE	IC504	8-752-052-77 s IC CXA1450M
CN503	1-506-467-11 s CONNECTOR 2P, MALE	IC506	1-809-332-11 s IC H8D7169C
CN504	1-506-467-11 s CONNECTOR 2P, MALE	IC605	8-759-708-05 s IC NJM78L05A
CN701	1-564-001-11 o CONNECTOR 2P, MALE	IC701	8-759-908-92 s IC TL084CNS
CN702	1-564-001-11 o CONNECTOR 2P, MALE	IC702	8-759-300-71 s IC HD14053BFP
CN703	1-506-469-11 s CONNECTOR 4P, MALE	IC703	8-759-927-46 s IC SN74HC00ANS
CN704	1-506-469-11 s CONNECTOR 4P, MALE	IC704	8-752-052-73 s IC CXA1451M
CN705 CN801	1-506-467-11 s CONNECTOR 2P, MALE 1-565-479-11 s CONNECTOR, BB 20P	IC705 IC706 IC707	8-752-052-73 s IC CXA1451M 8-752-052-73 s IC CXA1451M 8-752-052-73 s IC CXA1451M
D1	8-719-941-04 s DIODE SB007-03CP	IC708	8-759-908-92 s IC TL084CNS

(VP-33AP	BOARD)	(VP-33AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
Q123	8-729-117-72 s TRANSISTOR 2SC4178	Q329	8-729-117-72 s TRANSISTOR 2SC4178
Q124	8-729-117-72 s TRANSISTOR 2SC4178	Q351	8-729-117-72 s TRANSISTOR 2SC4178
Q125	8-729-117-72 s TRANSISTOR 2SC4178	Q352	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q126	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q420	8-729-117-32 s TRANSISTOR 2SC4177
Q127	8-729-117-72 s TRANSISTOR 2SC4178	Q421	8-729-117-72 s TRANSISTOR 2SC4178
Q128	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q422	8-729-117-72 s TRANSISTOR 2SC4178
Q151	8-729-117-72 s TRANSISTOR 2SC4178	Q423	8-729-117-72 s TRANSISTOR 2SC4178
Q161	8-729-117-72 s TRANSISTOR 2SC4178	Q424	8-729-117-72 s TRANSISTOR 2SC4178
Q162	8-729-905-12 s TRANSISTOR DTA144EU	Q425	8-729-117-72 s TRANSISTOR 2SC4178
Q163	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q426	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q164	8-729-117-72 s TRANSISTOR 2SC4178	Q427	8-729-117-72 s TRANSISTOR 2SC4178
Q165	8-729-905-12 s TRANSISTOR DTA144EU	Q428	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q167	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q461	8-729-117-72 s TRANSISTOR 2SC4178
Q168	8-729-117-72 s TRANSISTOR 2SC4178	Q462	8-729-905-12 s TRANSISTOR DTA144EU
Q169	8-729-117-72 s TRANSISTOR 2SC4178	Q463	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q181	8-729-117-72 s TRANSISTOR 2SC4178	Q464	8-729-117-72 s TRANSISTOR 2SC4178
Q182	8-729-905-12 s TRANSISTOR DTA144EU	Q465	8-729-905-12 s TRANSISTOR DTA144EU
Q183	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q466	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q184	8-729-117-72 s TRANSISTOR 2SC4178	Q467	8-729-117-72 s TRANSISTOR 2SC4178
Q185	8-729-905-12 s TRANSISTOR DTA144EU	Q468	8-729-117-72 s TRANSISTOR 2SC4178
Q186	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q501	8-729-905-12 s TRANSISTOR DTA144EU
Q187	8-729-117-72 s TRANSISTOR 2SC4178	Q504	8-729-905-12 s TRANSISTOR DTA144EU
Q188	8-729-905-12 s TRANSISTOR DTA144EU	Q505	8-729-905-12 s TRANSISTOR DTA144EU
Q189	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q513	8-729-117-72 s TRANSISTOR 2SC4178
Q190	8-729-117-72 s TRANSISTOR 2SC4178	Q514	8-729-117-72 s TRANSISTOR 2SC4178
Q191	8-729-117-72 s TRANSISTOR 2SC4178	Q515	8-729-117-72 s TRANSISTOR 2SC4178
Q192	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q541	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q193	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q550	8-729-905-18 s TRANSISTOR DTC144EU
Q194	8-729-117-72 s TRANSISTOR 2SC4178	Q552	8-729-905-18 s TRANSISTOR DTC144EU
Q201	8-729-905-12 s TRANSISTOR DTA144EU	Q561	8-729-117-72 s TRANSISTOR 2SC4178
Q204	8-729-905-12 s TRANSISTOR DTA144EU	Q563	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q205	8-729-905-12 s TRANSISTOR DTA144EU	Q570	8-729-905-12 s TRANSISTOR DTA144EU
Q211	8-729-117-72 s TRANSISTOR 2SC4178	Q591	8-729-117-72 s TRANSISTOR 2SC4178
Q212	8-729-117-72 s TRANSISTOR 2SC4178	Q592	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q213	8-729-117-72 s TRANSISTOR 2SC4178	Q621	8-729-117-72 s TRANSISTOR 2SC4178
Q214	8-729-117-72 s TRANSISTOR 2SC4178	Q622	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q215	8-729-117-72 s TRANSISTOR 2SC4178	Q623	8-729-117-72 s TRANSISTOR 2SC4178
Q241	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q624	8-729-117-72 s TRANSISTOR 2SC4178
Q250	8-729-905-18 s TRANSISTOR DTC144EU	Q625	8-729-117-72 s TRANSISTOR 2SC4178
Q252	8-729-905-18 s TRANSISTOR DTC144EU	Q626	8-729-117-72 s TRANSISTOR 2SC4178
Q261	8-729-117-72 s TRANSISTOR 2SC4178	Q627	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q262	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q628	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q263	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q629	8-729-117-72 s TRANSISTOR 2SC4178
Q264	8-729-117-72 s TRANSISTOR 2SC4178	Q651	8-729-117-72 s TRANSISTOR 2SC4178
Q265	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q652	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q266	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q701	8-729-117-32 s TRANSISTOR 2SC4177
Q270	8-729-905-12 s TRANSISTOR DTA144EU	Q702	8-729-143-14 s TRANSISTOR 2SC4176-B35
Q291	8-729-117-72 s TRANSISTOR 2SC4178	Q703	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q292	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q704	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q293	8-729-117-72 s TRANSISTOR 2SC4178	Q705	8-729-143-14 s TRANSISTOR 2SC4176-B35
Q294	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q706	8-729-143-07 s TRANSISTOR 2SA1610-YY33
Q321	8-729-117-72 s TRANSISTOR 2SC4178	Q707	8-729-904-41 s TRANSISTOR FMY3
Q322	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q708	8-729-904-41 s TRANSISTOR FMY3
Q323	8-729-117-72 s TRANSISTOR 2SC4178	Q709	8-729-117-32 s TRANSISTOR 2SC4177
Q324	8-729-117-72 s TRANSISTOR 2SC4178	Q710	8-729-143-14 s TRANSISTOR 2SC4176-B35
Q325	8-729-117-72 s TRANSISTOR 2SC4178	Q711	8-729-117-32 s TRANSISTOR 2SC4177
Q326	8-729-117-72 s TRANSISTOR 2SC4178	Q712	8-729-904-41 s TRANSISTOR FMY3
Q327	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q713	8-729-143-14 s TRANSISTOR 2SC4176-B35
Q328	8-729-143-07 s TRANSISTOR 2SA1610-YY33	Q714	8-729-140-63 s TRANSISTOR 2SA1611-M5M6

Q3001

R337

(VP-33AP	BOARD)	(VP-33AP	BOARD)
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty	Part No. SPDescription
R435	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R543	1-216-049-00 s METAL, CHIP 1K 5% 1/10W
R436	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R544	1-216-097-00 s METAL, CHIP 100K 5% 1/10W
R437	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R545	1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R438	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R551	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R439	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R552	1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R440 R441 R442 R443 R444	1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	R554 R555 R556 R558 R561	1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-295-00 s METAL, CHIP 0 5% 1/10W 1-216-113-00 s METAL, CHIP 470K 5% 1/10W
R445	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R562	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R446	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W	R563	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W
R447	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R564	1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W
R448	1-216-041-00 s METAL, CHIP 470 5% 1/10W	R565	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R449	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R566	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R450	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R567	1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R452	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W	R568	
R456	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	R569	
R461	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R570	
R462	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R571	
R463	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R577	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
R464	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R588	1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
R465	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R589	1-216-113-00 s METAL, CHIP 470K 5% 1/10W
R466	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R590	1-216-025-00 s METAL, CHIP 100 5% 1/10W
R467	1-216-025-00 s METAL, CHIP 10O 5% 1/10W	R591	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W
R468	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R592	1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-665-11 s METAL, CHIP 3.9K 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6K 0.5% 1/10W
R469	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R593	
R470	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R594	
R471	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R595	
R472	1-216-635-11 s METAL, CHIP 220 0.5% 1/10W	R596	
R473	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R597	1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W
R474	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R598	
R475	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R599	
R476	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R600	
R509	1-216-295-00 s METAL, CHIP 0 5% 1/10W	R601	
R510	1-216-295-00 s METAL, CHIP 0 5% 1/10W	R602	1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 1-216-037-00 s METAL, CHIP 330 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W
R511	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R603	
R512	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R604	
R513	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R621	
R514	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	R622	
R515	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R623	1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
R516	1-216-041-00 s METAL, CHIP 470 5% 1/10W	R624	
R517	1-216-041-00 s METAL, CHIP 470 5% 1/10W	R625	
R519	1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	R626	
R522	1-216-619-11 s METAL, CHIP 47 0.5% 1/10W	R627	
R524	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R628	1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W
R525	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R629	
R526	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R630	
R527	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R631	
R528	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	R632	
R531	1-216-077-00 s METAL, CHIP 15K 5% 1/10W	R633	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-646-11 s METAL, CHIP 620 0.5% 1/10W 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
R532	1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W	R634	
R533	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	R635	
R534	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R636	
R535	1-216-037-00 s METAL, CHIP 330 5% 1/10W	R637	
R536	1-216-025-00 s METAL, CHIP 100 5% 1/10W	R638	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W
R537	1-216-121-00 s METAL, CHIP 1M 5% 1/10W	R640	
R541	1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W	R641	
R542	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	R642	

(VP-33AP BOARD) (VP-33AP BOARD) Ref. No. Ref. No. or Q'ty SPDescription Part No. Part No. SPDescription or Q'ty 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-208-803-11 s METAL 7.5K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W R745 R644 R746 R649 R747 R651 R748 R654 R749 R655 R750 R753 R754 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 100 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R656 1-216-043-00 s METAL, CHIP 10K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W R658 R659 R755 R660 CHIP 4.7K 5% 1/10W R760 1-216-065-00 s METAL, R661 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W R761 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R690 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W R762 R691 1-216-089-00 s METAL, CHIP 47K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R763 R695 R764 R696 CHIP 100K 5% 1/10W R765 1-216-097-00 s METAL, R697 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R766 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R701 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R767 R702 1-216-049-00 s METAL, CHIP IK 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W R768 R703 R769 R704 1-216-081-00 s METAL, R770 R705 CHIP 1K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W R771 1-216-049-00 s METAL, R706 1-216-033-00 s METAL, CHIP 220 5% 1/10W R772 R773 1-216-025-00 s METAL, CHIP 100 5% 1/10W R707 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-657-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W R708 R774 R709 R775 R710 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W R776 R711 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-065-00 s METAL, CHIP 100 5% 1/10W R777 R712 R778 R713 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R779 R714 1-216-113-00 s METAL, CHIP 470K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W R780 R715 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 10K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s M 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R781 R716 R782 R717 R783 R718 R784 R719 1-216-033-00 s METAL, CHIP 220 5% 1/10W R785 R720 1-216-033-00 s METAL, CHIP 220 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W R786 R721 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R792 R722 1-216-049-00 S METAL, CHIP 470 5% 1/10W 1-216-049-00 S METAL, CHIP 1K 5% 1/10W 1-216-089-00 S METAL, CHIP 47K 5% 1/10W R796 R723 R724 R802 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W R803 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1216-652 11 s METAL, CHIP 100 5% 1/10W CHIP 10K 5% 1/10W R804 1-216-073-00 s METAL, R726 R727 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-025-00 s METAL, CHIP 100 5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W R805 R806 R728 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R807 R729 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W R808 R730 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-121-00 s METAL, CHIP 1M 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R809 R731 R810 R732 R811 R733 R734 R812 R813 R735 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-041-00 s METAL, CHIP 470 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W R814 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R815 R737 R738 R816 R817 R739 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R818 R740 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-049-00 s METAL, CHIP 1K 5% 1/10W R819 R741 R820 R742 R821 R743 $R82\bar{2}$ R744

Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription
R947	1-216-017-00 s METAL, CHIP 47 5% 1/10W	RV409 1-241-761-11 s RES, ADJ, CARBON 1K
R948	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	RV412 1-241-630-11 s RES, ADJ, CARBON 10K
R949	1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W	RV413 1-241-630-11 s RES, ADJ, CARBON 10K
R950	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	RV501 1-241-630-11 s RES, ADJ, CARBON 10K
R951	1-216-055-00 s METAL, CHIP 1.8K 5% 1/10W	RV502 1-238-802-11 s RES, ADJ, CERMET 10K
R952	1-216-017-00 s METAL, CHIP 47 5% 1/10W	RV503 1-241-630-11 s RES, ADJ, CARBON 10K
R953	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	RV504 1-238-802-11 s RES, ADJ, CERMET 10K
R955	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	RV505 1-238-802-11 s RES, ADJ, CERMET 10K
R956	1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W	RV506 1-241-630-11 s RES, ADJ, CARBON 10K
R960	1-216-025-00 s METAL, CHIP 100 5% 1/10W	RV701 1-241-761-11 s RES, ADJ, CARBON 1K
R961	1-216-041-00 s METAL, CHIP 470 5% 1/10W	RV703 1-238-799-11 s RES, ADJ, CERMET 1K
R962	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	RV704 1-238-799-11 s RES, ADJ, CERMET 1K
R963	1-216-073-00 s METAL, CHIP 10K 5% 1/10W	RV705 1-238-799-11 s RES, ADJ, CERMET 1K
R964	1-216-097-00 s METAL, CHIP 100K 5% 1/10W	RV706 1-238-799-11 s RES, ADJ, CERMET 1K
R965	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	RV707 1-238-799-11 s RES, ADJ, CERMET 1K
R966	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	RV708 1-238-799-11 s RES, ADJ, CERMET 1K
R967	1-216-081-00 s METAL, CHIP 22K 5% 1/10W	RV709 1-238-798-11 s RES, ADJ, CERMET 500
R968	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	RV712 1-238-800-11 s RES, ADJ, CERMET 2K
R970	1-216-049-00 s METAL, CHIP 1K 5% 1/10W	RV713 1-238-019-11 s RES, ADJ, CARBON 47K
R971	1-216-033-00 s METAL, CHIP 220 5% 1/10W	RV714 1-238-019-11 s RES, ADJ, CARBON 47K
R972	1-216-017-00 s METAL, CHIP 47 5% 1/10W	RV715 1-238-799-11 s RES, ADJ, CERMET 1K
R980	1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W	RV716 1-238-799-11 s RES, ADJ, CERMET 1K
R981	1-216-025-00 s METAL, CHIP 100 5% 1/10W	RV718 1-238-801-11 s RES, ADJ, CERMET 5K
R1001	1-216-041-00 s METAL, CHIP 470 5% 1/10W	RV719 1-238-799-11 s RES, ADJ, CERMET 1K
R1002	1-216-045-00 s METAL, CHIP 680 5% 1/10W	RV720 1-238-019-11 s RES, ADJ, CARBON 47K
R1003	1-216-077-00 s METAL, CHIP 15K 5% 1/10W	RV721 1-241-628-11 s RES, ADJ, CARBON 2.2K
R1004	1-216-017-00 s METAL, CHIP 47 5% 1/10W	RV722 1-238-799-11 s RES, ADJ, CERMET 1K
R1005	1-216-027-00 s METAL, CHIP 120 5% 1/10W	RV723 1-241-628-11 s RES, ADJ, CARBON 2.2K
R2001	1-216-033-00 s METAL, CHIP 220 5% 1/10W	RV724 1-238-799-11 s RES, ADJ, CERMET 1K
R2002	1-216-045-00 s METAL, CHIP 680 5% 1/10W	RV725 1-241-763-11 s RES, ADJ, CARBON 4.7K
R2003	1-216-077-00 s METAL, CHIP 15K 5% 1/10W	RV726 1-241-763-11 s RES, ADJ, CARBON 4.7K
R2004	1-216-017-00 s METAL, CHIP 47 5% 1/10W	S101 1-570-857-11 s SWITCH, SLIDE
R2005	1-216-027-00 s METAL, CHIP 120 5% 1/10W	S401 1-570-857-11 s SWITCH, SLIDE
R3001	1-216-033-00 s METAL, CHIP 220 5% 1/10W	S701 1-570-857-11 s SWITCH, SLIDE
R3002	1-216-045-00 s METAL, CHIP 680 5% 1/10W	S702 1-570-857-11 s SWITCH, SLIDE
R3003 R3004 R3005	1-216-077-00 s METAL, CHIP 15K 5% 1/10W 1-216-017-00 s METAL, CHIP 47 5% 1/10W 1-216-027-00 s METAL, CHIP 120 5% 1/10W	S703 1-570-857-11 s SWITCH, SLIDE TH301 1-800-199-00 s THERMISTOR, S-1250 TH601 1-800-199-00 s THERMISTOR, S-1250
RV102 RV103 RV106 RV107 RV108	1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-761-11 s RES, ADJ, CARBON 1K	1HOU1 1-000-199-00 \$ 11EEMM1310K, 5-1250
RV109 RV111 RV112 RV113 RV201	1-241-761-11 s RES, ADJ, CARBON 1K 1-241-630-11 s RES, ADJ, CARBON 10K 1-238-802-11 s RES, ADJ, CERMET 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K	
RV202 RV203 RV204 RV205 RV206	1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-238-801-11 s RES, ADJ, CERMET 5K 1-238-801-11 s RES, ADJ, CERMET 5K 1-238-802-11 s RES, ADJ, CERMET 10K	
RV402 RV403 RV406 RV407 RV408	1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-630-11 s RES, ADJ, CARBON 10K 1-241-761-11 s RES, ADJ, CARBON 1K	

VR-116A B	OARD	FRAME
Ref. No. or Q'ty	Part No. SPDescription	Ref. No. or Q'ty Part No. SPDescription
lpc	1-640-039-21 o PRINTED CIRCUIT BOARD, VR-116A	1pc A-6050-841-A s HEAD DRUM ASSY, DBH-28A-R 1pc A-6762-463-A s UPPER DRUM ASSY, DBR-28-R
CN400 CN401 CN402 CN405	1-506-483-21 s PIN, CONNECTOR 4P 1-506-485-11 s PIN, CONNECTOR 6P 1-506-485-11 s PIN, CONNECTOR 6P 1-569-345-11 s CONNECTOR, BOARD TO BOARD 21P	1pc
CN407	1-564-013-11 o CONNECTOR 3P, MALE	1pc 1-806-682-71 s SENSOR, CONDENSATION
J1	1-507-863-51 s JACK, LARGE TYPE	CN001 \$\Delta 1-580-375-21 o INLET, AC 3P, MALE
R5 R6 R7 R8	1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W	CNIF (to AU-150 board) 1-569-196-110 HOUSING, 3P 1-569-194-110 CONTACT, FEMALE AWG24-30
RV2 RV4 RV5	1-241-248-11 s RES WITH SW, VAR, CARBON 10K 1-241-248-11 s RES WITH SW, VAR, CARBON 10K 1-241-577-11 s RES WITH SW, VAR, CARBON 20K/20K	CN1F (to Drum Motor) 1-580-938-11 o HOUSING, 15P 1-569-191-11 o CONTACT, FEMALE AWG22-26
K. O		CN1F (to PTC-39 board) 1-562-151-11 o HOUSING, 6P 1-564-026-00 o CONTACT, FEMALE AWG26-30
VR-117A	BOARD	CN1F (to RP-57 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
Ref. No. or Q'ty	Part No. SPDescription	CN1F (to Switching Reg.) 1-562-285-11 o HOUSING, 4P
lpc	1-640-044-21 o PRINTED CIRCUIT BOARD, VR-117A	1-562-210-11 o CONTACT, FEMALE AWG18-22
C5 C6	1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V	CN2F (to AU-148 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
CN501 RV1		CN2F (to AU-149 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
		CN2F (to AU-150 board) 1-569-202-11 o HOUSING, 9P 1-569-193-21 o CONTACT, FEMALE AWG24-30 1-569-191-11 o CONTACT, FEMALE AWG22-26
		CN2F (to KY-210 board) 1-562-151-11 o HOUSING, 6P 1-564-026-11 o CONTACT, FEMALE AWG26-30
		CN2F (to RP-57 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
		CN2F (to Switching Reg.) 1-562-286-11 o HOUSING, 5P 1-562-210-11 o CONTACT, FEMALE AWG18-22
		CN3F (to Switching Reg.) 1-562-833-11 o HOUSING, 7P 1-562-210-11 o CONTACT, FEMALE AWG18-22
		CN4F (to Switching Reg.) 1-562-287-11 o HOUSING, 6P 1-562-210-11 o CONTACT, FEMALE AWG18-22
		CN101FF (to RP-57 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30
		CN102F (to RP-57 board) 1-569-196-11 o HOUSING, 3P 1-569-194-11 o CONTACT, FEMALE AWG24-30

(FRAME)			(FRAME)		
Ref. No. or Q'ty	Part No. SPDescript	ion	Ref. No. or Q'ty	Part No.	SPDescription
	to MB-322 board) 1-562-258-11 o HOUSING, 1-562-260-11 o CONTACT,	10P IL-S, FRAME AWG24-28	M001 M002 M003 M004	8-835-179-0 A-6737-207-	1 s MOTOR, DC MCB2B15 1 s MOTOR, DC MCB2B15 A s RM ASSY "T-REEL"
CN292F((to MB-322 board) 1-562-286-11 o HOUSING, 1-562-210-11 o CONTACT,	5P FEMALE AWG18-22	M005 M006 M007	8-835-179-0	A s RM ASSY "S-REEL" 1 s MOTOR, DC MCB2B15 1 s MOTOR, DC SCV-0301A
CN293F	(to MB-322 board) 1-562-833-11 o HOUSING, 1-562-210-11 o CONTACT,		ME001 ME002 ME003	1-520-494-1 1-520-393-2	1 s METER, VIDEO LEVEL 1 s METER, AUDIO LEVEL 1 s METER, AUDIO LEVEL
CN294F	(to MB-322 board) 1-562-287-11 o HOUSING, 1-562-210-11 o CONTACT,	6P FEMALE AWG18-22	PM001 PM002 PM003	1-454-417-4	1 s SOLENOIDE PLUNGER 11 s SOLENOIDE PLUNGER 11 s SOLENOIDE PLUNGER
CN300F	(to DR-118 board) 1-562-258-11 o HOUSING, 1-562-260-11 o CONTACT,	10P IL-S, FRAME AWG24-28	PM004 S001 Z	1-454-338-0	00 s SOLENOIDE PLUNGER 11 s SWITCH, ROCKER "POWER"
CN315F	(to DR-118 board) 1-569-196-11 o HOUSING, 1-569-193-11 o CONTACT, 1-569-191-11 o CONTACT,	FEMALE			
CN323F	(to DR-118 board) 1-569-196-11 o HOUSING, 1-569-193-11 o CONTACT, 1-569-191-11 o CONTACT,	FEMALE			
CN360F	(to DR-118 board) 1-569-208-11 o HOUSING, 1-569-193-11 o CONTACT,	15P FEMALE			
CN509F	(to SW-444 board) 1-569-195-11 o HOUSING, 1-569-193-11 o CONTACT,				
CN926F	(to RM-82 board) 1-562-149-11 o HOUSING, 1-564-026-00 o CONTACT,	4P FEMALE AWG26-30			
CN935F	(to CL-25 board) 1-569-195-11 o HOUSING, 1-569-193-11 o CONTACT,	2P FEMALE			
CN968F	(to Head Drum) 1-569-199-11 o HOUSING, 1-569-194-11 o CONTACT,	6P FEMALE AWG24-30			
CN969F	(to Head Drum) 1-569-199-11 o HOUSING, 1-569-194-11 o CONTACT, 1-569-192-11 o CONTACT,	FEMALE AWG24-30			
CN998F	(to AC-113 board) 1-562-285-11 o HOUSING, 1-562-210-11 o CONTACT,	4P FEMALE AWG18-22			
CN999F	(to AC-113 board) 1-562-285-11 o HOUSING, 1-562-210-11 o CONTACT,	4P FEMALE AWG18-22			
HO01 HO04	8-825-776-21 s HEAD, PS 8-825-776-41 s HEAD, PS	5244-2103E "AUDIO/TC" 5244-21C "CLT"			
LO01 LO02	1-543-316-31 s HEAD, SF 1-543-316-31 s HEAD, SF	ENSING ENSING			

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q'ty	Part No. SPDescription
lpc	1-555-873-13 o CABLE, REMOTE 9P (RCC-5G) 5m
lpc	1-590-910-11 s CORD, POWER 3P
lpc	3-173-256-03 o INDIVIDUAL CARTON
lpc	3-701-616-00 s BAG, POLYETHYLENE
lpc	3-701-649-00 s BAG, POLYETHYLENE
lpc	3-721-869-03 o CUSHION (UPPER)
lpc	3-721-870-02 o CUSHION (LOWER)
lpc	3-721-888-01 o SPACER (SIDE)
lpc	3-721-889-01 o SLEEVE (A)
lpc	3-721-890-01 o SLEEVE (B)
lpc	△3-753-961-13 s MANUAL, INSTRUCTION (English)
lpc	3-753-961-42 s MANUAL, INSTRUCTION (French)
lpc	3-753-961-52 s MANUAL, INSTRUCTION (German)
lpc	3-753-961-61 o MANUAL, INSTRUCTION (Italian)
4pcs	7-682-665-09 s SCREW +PSW 4X16

OPTIONAL FIXTURE

Part	No.	SP	Description
J-600	01-820-1	0 <i>l</i>	EXTENTION BOARD (L), EX-286 DURM ECCENTRICITY GAUGE (3) DURM ECCENTRICITY GAUGE (2) DURM ECCENTRICITY GAUGE (1) MULTI CONNECTOR CABLE (DOBNC)
J-600	01-830-1	0 <i>l</i>	
J-600	01-840-1	0 <i>l</i>	
J-600	80-008-2	0 A	EXTENTION TOOL (for PLCC socket) CASSETTE REFERENCE PLATE REEL TEBLE TENSION GAUGE ADJUSTMENT MIRROR ADJUSTMENT MIRROR
J-600	80-011-2	0 A	
J-600	80-029-2	0 O	
J-60	87-000-,	A o	REFERENCE FLAT PLATE DURM ECCENTRICITY GAUGE (5) REEL MOTOR SHAFT SLANTNESS CHECK FIXTURE WIRE CLEARANCE GAUGE RELL TABLE HEIGHT GAUGE
J-63	20-870-,	A o	
J-61	52-450-,	A o	
J-63	21-500	A o	CASSETTE BASE PLATE (L) TAPE GUIDE ADJUSTMENT DRIVER TENSION REGULATOR POSITIONING TOOL DURM ECCENTRICITY GAUGE (6) DIAL TENSION GAUGE (50g)
J-63	22-370	A o	
J-63	25-530	A o	
J-63 2-03 7-66	38-130- 4-697-0 1-018-1	A o 0 o 8 o	TENSION MEASUREMENT TAPE EXTENSION BOARD (S), EX-287 CLEANING PIECE OIL MOLYTON GREASE, NO. 320 (30g bottle)
7-70	0-736-0	1 o	GREASE, SGL-505 (20g) L-SHAPED HEXAGONAL WRENCH (d:1.27mm) L-SHAPED HEXAGONAL WRENCH (d:1.5mm) L-SHAPED HEXAGONAL WRENCH (d:0.89mm) TENSION SCALE (50g full scale)
7-70	0-736-0	5 o	
7-70	0-736-0	6 o	
8-96	0-096-8	6 o	TENSION SCALE (100g full scale) ALIGNMENT TAPE, CR2-1B PS ALIGNMENT TAPE, CR8-1B PS ALIGNMENT TAPE, CR5-1B PS ALIGNMENT TAPE, CR5-2A PS
8-96	0-096-9	1 o	
9-91 9-91	1-053-0 9-573-0 DARD	0 о	ALIGNMENT TAPE, CR8-1A PS THICKNESS GAUGE CLEANING FLUID TENTELOMETER (T2-H7-UMC)

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This Switching Regulator is critical component
             to safety.
                                                                                    (A ASSY)
A ASSY
             Replace only with same components as specified.
                                                                                    Ref. No.
Ref. No.
                                                                                                              SP Description
                                                                                    or Q'ty Part No.
                         SP Description
or Q'ty Part No.
            1-640-833-12 o PRINTED CIRCUIT BOARD "SOPS1019A"
                                                                                    C234
                                                                                               1-128-320-11 s ELECT 2200uF 20% 16V
                                                                                               1-128-222-11 s ELECT 330uF 20% 16V
                                                                                    C235
            1-543-060-00 s CORE
12pcs
                                                                                               1-136-165-00 s FILM 0. 1uF 5% 50V
1-102-228-00 s CERAMIC 470PF 10% 500V
                                                                                    C236
            2-430-773-01 s SCREW, M3x6
1pc
                                                                                    C237
            2-434-297-01 o BRACKET (DP-UR17)
2pcs
                                                                                               1-101-821-00 s CERAMIC 0.0022uF 500V
            2-625-674-02 o PLATE (1019), GROUND
                                                                                    C238
1pc
                                                                                               1-101-821-00 s CERAMIC 0.0022uF 500V
            2-625-675-01 s RUBBER (1019). INSULATING
                                                                                    C239
2pcs
            2-625-676-01 s INSULATOR (IS-1019C)
                                                                                               1-128-141-11 s ELECT 560uF 20% 25V
1-128-375-11 s ELECT 120uF 20% 25V
                                                                                    C240
1pc
                                                                                    C241
            2-625-680-01 o HEAT SINK (HS-1019B)
2-625-681-01 o HEAT SINK (HS-1019A)
1pc
                                                                                               1-136-165-00 s FILM 0. 1uF 5% 50V
                                                                                    C242
1pc
                                                                                                1-102-228-00 s CERAMIC 470PF 10% 500V
                                                                                    C243
            3-899-248-31 s SCREW (M3x12)
7pcs
                                                                                                1-101-821-00 s CERAMIC 0.0022uF 500V
                                                                                    C244
             4-382-854-11 s SCREW (M3x10), P, SW(+)
2pcs
                                                                                               1-101-821-00 s CERAMIC 0.0022uF 500V
            7-685-647-79 s SCREW +BV 3x10, TYPE 2, IT-3
7-682-649-09 s SCREW +PS 3x10
                                                                                    C245
 1oc
                                                                                               1-128-248-11 s ELECT 1000uF 20% 25V
1-128-376-11 s ELECT 220uF 20% 25V
                                                                                    C246
                                                                                    C247
                                                                                                1-136-165-00 s FILM 0. 1uF 5% 50V
            1-126-410-11 s ELECT 47uF 99% 400V 1-136-165-00 s FILM 0.1uF 5% 50V
                                                                                    C248
0151
C152
             1-124-477-11 s ELECT 47uF 20% 25V
                                                                                    C249
                                                                                                1-124-120-11 s ELECT 220uF 20% 25V
 C153
                                                                                                1-130-483-00 s MYLAR 0.01uF 5% 50V
             1-136-165-00 s FILM 0.1uF 5% 50V
                                                                                    C250
 C154
                                                                                               1-123-382-00 s ELECT 3.3uF 20% 50V
1-124-479-11 s ELECT 330uF 20% 25V
                                                                                    C251
             1-136-165-00 s FILM 0.1uF 5% 50V
 C155
                                                                                    C252
             1-161-741-00 s CERAMIC 0.001uF 10% 400V
                                                                                                1-136-171-00 s FILM 0.033uF 5% 50V
                                                                                    C253
 C156
             1-136-207-11 s FILM 0.047uF 10% 630V
 C157
             1-124-478-11 s ELECT 100uF 20% 25V
1-136-346-11 s FILM 0. 22uF 10% 250V
                                                                                    C254
                                                                                                1-124-477-11 s ELECT 47uF 20% 25V
 C158
                                                                                                1-124-916-11 s ELECT 22uF 20% 25V
                                                                                    C255
 C159
             1-136-207-11 s FILM 0.047uF 10% 630V
 C160
                                                                                    CN151
                                                                                                1-573-896-11 o SOCKET, CONNECTOR 12P
                                                                                               1-566-313-11 o PIN, CONNECTOR, 7P
1-564-216-00 o PIN, CONNECTOR, 5P
1-564-607-11 o PIN, CONNECTOR, 6P
1-508-933-00 o POST HEADER, CONNECTOR 2P
             1-136-165-00 s FILM 0.1uF 5% 50V
                                                                                    CN201
 C161
             1-126-410-11 s ELECT 47uF 99% 400V
                                                                                    CN202
 C162
             1-130-471-00 s MYLAR 0.001uF 5% 50V
1-102-228-00 s CERAMIC 470PF 10% 500V
                                                                                    CN203
 C163
                                                                                    CN204
 C201
             1-128-374-11 s ELECT 1200uF 20% 10V
 C202
                                                                                    0151
                                                                                                8-719-911-19 s DIODE 1SS119
                                                                                                8-719-951-30 s DIODE ERA91-02
8-719-951-30 s DIODE ERA91-02
             1-124-604-00 s ELECT 330uF 20% 10V
                                                                                    D152
 0203
            1-124-604-00 $ ELECT 5300F 20% TOV

1-136-165-00 $ FILM 0.1uF 5% 50V

1-102-228-00 $ CERAMIC 470PF 10% 500V

1-101-821-00 $ CERAMIC 0.0022uF 500V

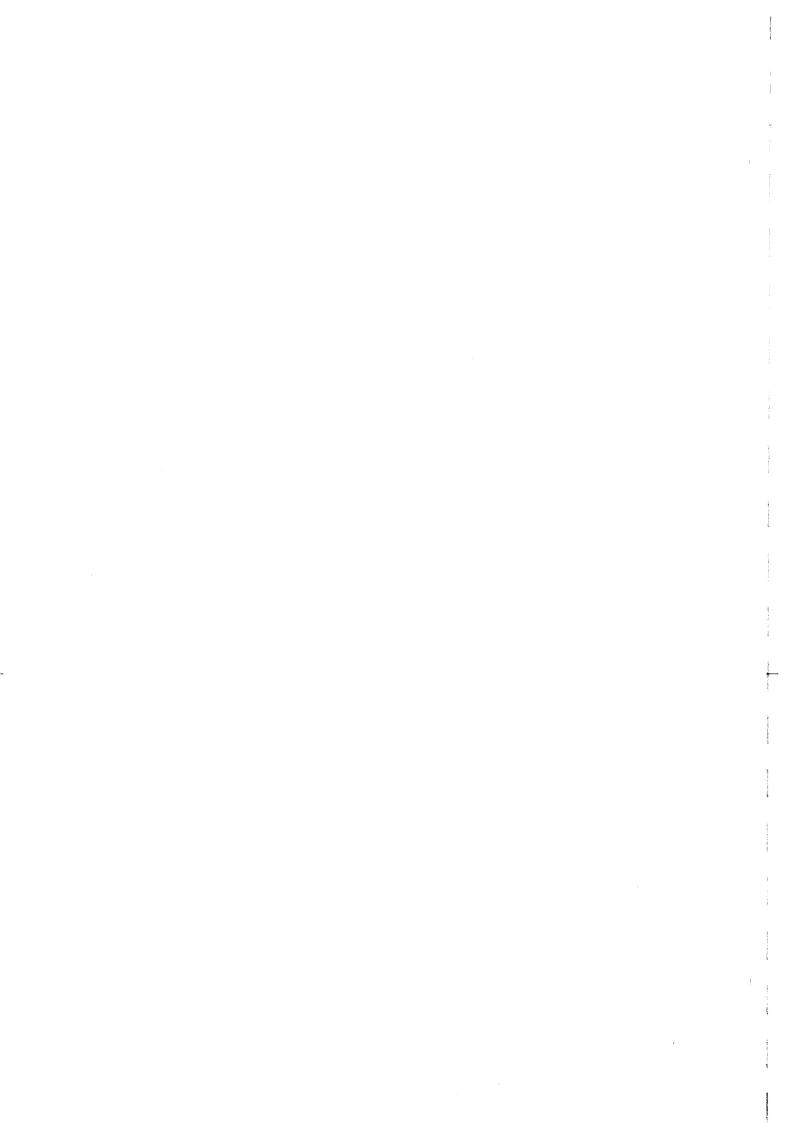
1-101-821-00 $ CERAMIC 0.0022uF 500V
                                                                                    D153
 C204
                                                                                    D154
                                                                                                8-719-200-02 s DIODE 10E-2
 C205
                                                                                    D155
                                                                                                8-719-911-19 s DIODE 1SS119
 C206
 C207
                                                                                    D156
                                                                                                8-719-313-16 s DIODE AU02A
             1-101-821-00 s CERAMIC 0.0022uF 500V
1-101-821-00 s CERAMIC 0.0022uF 500V
                                                                                    D157
                                                                                                8-719-911-19 s DIODE 1SS119
 C208
                                                                                                8-719-911-19 s DIODE 1SS119
                                                                                    D158
 C209
             1-128-373-11 s ELECT 1500uF 20% 6.3V
1-128-372-11 s ELECT 470uF 20% 6.3V
1-136-165-00 s FILM 0.1uF 5% 50V
                                                                                                8-719-313-16 s DIODE AU02A
                                                                                     D159
 C210
                                                                                                8-719-510-39 s DIODE D10LC20U
                                                                                    D201
  C211
  C212
                                                                                     D202
                                                                                                8-719-210-60 s DIODE F25P04QS
                                                                                                8-719-510-12 s DIODE D10SC4M
                                                                                     D203
             1-102-228-00 s CERAMIC 470PF 10% 500V
  C213
             1-101-821-00 s CERAMIC 0.0022uF 500V
1-101-821-00 s CERAMIC 0.0022uF 500V
                                                                                                8-719-510-12 s DIODE D10SC4M
                                                                                     D204
  C214
                                                                                     D205
                                                                                                8-719-951-30 s DIODE ERA91-02
  C215
             1-128-373-11 s ELECT 1500uF 20% 6.3V
                                                                                                8-719-110-16 s DIODE RD10ES-B1
                                                                                     D206
  C216
             1-128-372-11 s ELECT 470uF 20% 6.3V
  C217
                                                                                                8-719-911-19 s DIODE 1SS119
                                                                                     0207
             1-136-165-00 s FILM 0.1uF 5% 50V
                                                                                     D208
                                                                                                8-719-109-92 s DIODE RD6. 2ES-B1
  C218
                                                                                                8-719-911-19 s DIODE 1SS119
             1-130-483-00 s MYLAR 0.01uF 5% 50V
                                                                                     D209
  C219
             1-124-120-11 s ELECT 220uF 20% 25V
1-124-916-11 s ELECT 22uF 20% 25V
                                                                                                8-719-109-75 s DIODE RD4. 3ES-B2
                                                                                     D210
  C220
                                                                                     D211
                                                                                                8-719-911-19 s DIODE 1SS119
  C221
             1-130-491-00 s MYLAR 0.047uF 5% 50V
  C222
                                                                                     D212
                                                                                                8-719-110-46 s DIODE RD16ES-B3
                                                                                                8-719-911-19 s DIODE 1SS119
             1-130-483-00 s MYLAR 0.01uF 5% 50V
                                                                                    D213
  C223
             1-136-169-00 s FILM 0. 22uF 5% 50V
                                                                                    D214
                                                                                                8-719-911-19 s DIODE 1SS119
  C224
             1-102-244-00 s CERAMIC 220PF 10% 500V
1-102-002-00 s CERAMIC 680PF 10% 500V
1-102-002-00 s CERAMIC 680PF 10% 500V
                                                                                     D215
                                                                                                8-719-911-19 s DIODE 1SS119
  C225
                                                                                                8-719-510-39 s DIODE D10LC20U
                                                                                    D216
  C226
                                                                                                8-719-510-41 s DIODE D10SC9M
8-719-510-72 s DIODE S3L20UF1
                                                                                     0217
             1-128-142-11 s ELECT 1500uF 20% 25V
1-128-142-11 s ELECT 1500uF 20% 25V
                                                                                     D218
  C228
                                                                                                8-719-510-39 s DIODE D10LC20U
                                                                                     D219
  C229
                                                                                                8-719-110-42 s DIODE RD15ES-B3
             1-136-165-00 s FILM 0. 1uF 5% 50V
                                                                                     D220
  C230
             1-102-228-00 s CERAMIC 470PF 10% 500V
1-101-821-00 s CERAMIC 0.0022uF 500V
                                                                                                8-719-110-57 s DIODE RD22ES-B2
                                                                                     D222
  C231
  C232
             1-101-821-00 s CERAMIC 0.0022uF 500V
                                                                                    0223
                                                                                                8-719-109-86 s DIODE RD5. 1ES-B3
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ITCHING REGULATOR

(A ASSY)	(A ASSY)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
D224 8-719-911-19 s DIODE 1SS119 D225 8-719-911-19 s DIODE 1SS119 D226 8-719-510-72 s DIODE S3L20UF1 D227 8-719-911-19 s DIODE 1SS119	R209 1-249-427-11 s CARBON 6.8K 5% 1/4W R210 1-249-417-11 s CARBON 1K 5% 1/4W R211 1-249-417-11 s CARBON 1K 5% 1/4W R212 1-249-429-11 s CARBON 10K 5% 1/4W R213 1-249-425-11 s CARBON 4.7K 5% 1/4W
F151 1-572-889-11 s SWITCH, THERMAL GUARD F201 1-572-818-11 s SWITCH, THERMAL GUARD	R214 1-249-425-11 s CARBON 4.7K 5% 1/4W R215 1-249-413-11 s CARBON 470 5% 1/4W
IC151 8-719-820-67 s PHOTO COUPLER TLP634-D4-GB-LF2 IC152 8-719-159-90 s PHOTO COUPLER PS2652-P IC153 8-719-159-90 s PHOTO COUPLER PS2652-P IC201 8-759-135-80 s IC UPC358C IC202 8-759-908-15 s IC TL431CLP	R216 1-249-433-11 s CARBON 22K 5% 1/4W R217 1-249-411-11 s CARBON 330 5% 1/4W R218 1-249-432-11 s CARBON 18K 5% 1/4W R219 1-249-423-11 s CARBON 3.3K 5% 1/4W
1C202 8-759-908-15 s IC TL431CLP 1C203 8-759-908-15 s IC TL431CLP 1C204 8-759-605-43 s IC M5231TL 1C205 8-759-632-07 s IC M5237L 1C206 8-759-604-39 s IC M5F78M12L	R220 1-249-425-11 s CARBON 4.7K 5% 1/4W R221 1-249-421-11 s CARBON 2.2K 5% 1/4W R222 1-249-430-11 s CARBON 12K 5% 1/4W R223 1-249-422-11 s CARBON 2.7K 5% 1/4W
L151 1-414-013-11 s COIL, CHOKE 2mH L152 1-424-574-11 s L.F.T L153 1-424-574-11 s L.F.T L201 1-414-012-11 s COIL, CHOKE 30uH	R224 1-247-891-00 s CARBON 330K 5% 1/4W R225 1-215-890-11 s METAL 470 5% 2W R226 1-249-431-11 s CARBON 15K 5% 1/4W R227 1-249-413-11 s CARBON 470 5% 1/4W R228 1-249-417-11 s CARBON 1K 5% 1/4W
L203 1-424-254-31 s COIL, CHOKE (MOLDE) 4.7uH L204 1-424-254-31 s COIL, CHOKE (MOLDE) 4.7uH L205 1-414-010-11 s COIL, CHOKE 250uH L206 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH	R229 1-215-882-00 s METAL 22 5% 2W R231 1-215-882-00 s METAL 22 5% 2W R232 1-205-657-00 s CEMENT ENCLOSE 150 5% 5W R233 1-249-423-11 s CARBON 3. 3K 5% 1/4W R234 1-215-882-00 s METAL 22 5% 2W
L207 1-414-011-11 s COIL, CHOKE 140uH L208 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH L209 1-414-038-11 s COIL, CHOKE 150uH L210 1-424-254-31 s COIL, CHOKE (MOLDE) 4.7uH L211 1-424-255-41 s COIL, CHOKE (MOLDE) 10uH	R235 1-215-890-11 s METAL 470 5% 2W R236 1-215-882-00 s METAL 22 5% 2W R237 1-215-890-11 s METAL 470 5% 2W R238 1-249-409-11 s CARBON 220 5% 1/4W R239 1-249-411-11 s CARBON 330 5% 1/4W
PS151 1-532-637-00 s LINK, IC PS201 1-532-637-00 s LINK, IC	R240 1-249-433-11 s CARBON 22K 5% 1/4W R241 1-249-421-11 s CARBON 2. 2K 5% 1/4W R242 1-249-423-11 s CARBON 3. 3K 5% 1/4W
Q151 8-729-923-35 s TRANSISTOR IRFBC40 Q152 8-729-923-35 s TRANSISTOR IRFBC40 Q201 8-729-900-80 s TRANSISTOR DTC114ES	R243 1-249-417-11 s CARBON 1K 5% 1/4W R244 1-249-413-11 s CARBON 470 5% 1/4W
0202 8-729-205-02 s TRANSISTOR 2SA1150-Y 0203 8-729-931-44 s TRANSISTOR 2SA1600	R245 1-249-431-11 s CARBON 15K 5% 1/4W R246 1-249-417-11 s CARBON 1K 5% 1/4W R247 1-249-435-11 s CARBON 33K 5% 1/4W
R151 1-215-901-00 s METAL 33K 5% 2W R152 1-215-903-11 s METAL 68K 5% 2W R153 1-215-903-11 s METAL 68K 5% 2W	R248 1-249-413-11 s CARBON 470 5% 1/4W R249 1-249-425-11 s CARBON 4.7K 5% 1/4W
R154 1-249-394-11 s CARBON 12 5% 1/4W R155 1-249-404-00 s CARBON 82 5% 1/4W	RV201 1-237-499-21 s RES, ADJ, CERMET 500 RV202 1-228-990-00 s RES, ADJ, METAL 1K
R156 1-249-399-11 s CARBON 33 5% 1/4W R157 1-249-421-11 s CARBON 2.2K 5% 1/4W R158 1-249-404-00 s CARBON 82 5% 1/4W R159 1-215-903-11 s METAL 68K 5% 2W R160 1-215-903-11 s METAL 68K 5% 2W	T151 1-450-682-12 s TRANSFORMER, CONVERTER T152 1-424-573-11 s TRANSFORMER, CURRENT T153 1-424-573-11 s TRANSFORMER, CURRENT T154 1-450-683-12 s TRANSFORMER, CONVERTER
R161 1-215-901-00 s METAL 33K 5% 2W R162 1-249-441-11 s CARBON 100K 5% 1/4W R163 1-249-394-11 s CARBON 12 5% 1/4W R164 1-249-407-11 s CARBON 150 5% 1/4W R165 1-249-404-00 s CARBON 82 5% 1/4W	
R166 1-249-441-11 s CARBON 100K 5% 1/4W R201 1-215-882-00 s METAL 22 5% 2W R203 1-249-417-11 s CARBON 1K 5% 1/4W R204 1-215-882-00 s METAL 22 5% 2W R205 1-215-890-11 s METAL 470 5% 2W	
R206 1-215-882-00 s METAL 22 5% 2W	

SWITCHING REGULATOR

B ASSY		C ASSY	
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc 1pc	1-640-834-12 o PRINTED CIRCUIT BOARD"SOPS1019B" 2-625-679-01 o HEAT SINK	1pc	1-640-835-11 o PRINTED CIRCUIT BOARD"SOPS1019C"
1pc 1pc	2-625-748-01 s RUBBER, RADIATION 4-382-854-11 s SCREW (M3x10), P, SW(+)	C181 C182 C183	1-136-165-00 s FILM 0.1uF 5% 50V 1-163-157-00 s FILM 0.022uF 5% 50V 1-124-465-00 s ELECT 0.47uF 20% 50V
C101 C102	1-162-573-11 s CERAMIC 100PF 10% 400V 1-137-110-11 s FILM 0.47uF 20% 250V	C184 C185	1-130-047-00 s FILM 180PF 5% 50V 1-136-165-00 s FILM 0.1uF 5% 50V
C103 C104 C105	1-136-185-00 s FILM 0.22uF 20% 250V 1-161-742-00 s CERAMIC 0.0022uF 20% 400V 1-161-742-00 s CERAMIC 0.0022uF 20% 400V	C186 C187	1-163-157-00 s FILM 0.022uF 5% 50V 1-163-157-00 s FILM 0.022uF 5% 50V 1-163-157-00 s FILM 0.022uF 5% 50V
C106 C107	1-161-742-00 s CERAMIC 0.0022uF 20% 400V 1-136-206-11 s FILM 0.033uF 10% 630V	C188 C189 C190	1-124-242-00 s ELECT 33uF 20% 25V 1-136-013-11 s FILM 360PF 5% 50V
C108 C109 C110	1-161-742-00 s CERAMIC 0.0022uF 20% 400V	C191 C192 C193	1-136-165-00 s FILM 0.1uF 5% 50V 1-124-248-00 s ELECT 22uF 20% 25V 1-126-096-11 s ELECT 10uF 20% 25V
C111 C112	1-125-703-11 s ELECT 680uF 20% 250V 1-125-703-11 s ELECT 680uF 20% 250V	D182 D183	8-719-110-16 s DIODE RD10ES-B1 8-719-200-02 s DIODE 10E-2
CN101 CN102	1-564-215-11 o PIN, CONNECTOR, 4P 1-564-242-00 o PIN, CONNECTOR, 5P	D184 D185	8-719-110-57 s DIODE RD22ES-B2 8-719-109-85 s DIODE RD5.1ES-B2
D101 D102	8-719-510-71 s DIODE DIOXB60 8-719-313-16 s DIODE AUO2A	IC151 IC152	8-759-637-30 s IC M51978P 8-759-520-23 s IC FA5304P
D103 D104 D105	8-719-313-16 s DIODE AUO2A 8-719-313-16 s DIODE AUO2A 8-719-200-02 s DIODE 10E-2	0181 0182	8-729-119-78 s TRANSISTOR 2SC2785-HFE 8-729-900-80 s TRANSISTOR DTC114ES
0106 0107 0108	8-719-200-02 s DIODE 10E-2 8-719-911-19 s DIODE 1SS119 8-719-911-19 s DIODE 1SS119	R181 R182 R183 R184	1-249-421-11 s CARBON 2.2K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W 1-249-393-11 s CARBON 10 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W
10101	8-749-922-70 s IC STR-81145A	R185	1-249-441-11 s CARBON 100K 5% 1/4W
L101 L102 L103	1-424-582-11 s COIL, AC NORMAL CHOKE 1-424-583-11 s TRANSFORMER, LINE FILTER 1-424-058-11 s L.F.T	R186 R187 R188 R189	1-249-433-11 s CARBON 22K 5% 1/4W 1-249-432-11 s CARBON 18K 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W
PS101	1-532-637-00 s LiNK, IC	R190	1-249-393-11 s CARBON 10 5% 1/4W
0101	8-729-205-02 s TRANSISTOR 2SA1150-Y	R191 R192	1-249-441-11 s CARBON 100K 5% 1/4W 1-249-405-11 s CARBON 100 5% 1/4W
R101 R102 R105	1-202-719-00 s SOLID 1M 10% 1/2W 1-217-785-11 s CEMENT (FUSE) 15 5% 5W 1-247-883-00 s CARBON 150K 5% 1/4W 1-247-883-00 s CARBON 150K 5% 1/4W	R193 R194 R195	1-247-895-00 s CARBON 470K 5% 1/4W 1-249-433-11 s CARBON 22K 5% 1/4W 1-247-903-11 s CARBON 1M 5% 1/4W
R106 R107	1-247-883-00 s CARBON 150K 5% 1/4W	R196	1-249-427-11 s CARBON 6.8K 5% 1/4W
R108 R109 R110	1-247-883-00 s CARBON 150K 5% 1/4W 1-260-131-11 s CARBON 470K 5% 1/2W 1-260-131-11 s CARBON 470K 5% 1/2W		
RY101	1-515-685-11 s RELAY		



SECTION 19 CHANGED PARTS

NOTE: The number identified by making with) are matching with each serial numbers.

```
    101)
    S/N
    10151-
    107)
    S/N
    12491-

    102)
    S/N
    10651-
    108)
    S/N
    12851-

    103)
    S/N
    11151-
    109)
    S/N
    12951-

    104)
    S/N
    11481-
    110)
    S/N
    13101-

    105)
    S/N
    11681-
    111)
    S/N
    13316-

    106)
    S/N
    12241-
    112)
    S/N
    13616-
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(AU-148AP BOARD)
AU-148AP BOARD
                                                                               NOT IN USE
                                                                    OLD) R161
OLD) C101 1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
                                                                               1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
                                                                    102) R161
                                                                    OLD) R162
                                                                               NOT IN USE
108) C101 DELETED
OLD) C102 1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
                                                                    102) R162
                                                                               1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
                                                                    OLD) R343 NOT IN USE
108) C102 DELETED
          1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
OLD) C103
                                                                    102) R343 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
           DELETED
108) 0103
                                                                    OLD) RY101 1-515-434-00 s RELAY, REED
OLD) C120 1-130-493-00 s MYLAR 0.068uF 5% 50V
                                                                    108) RY101 DELETED
109) C120 1-130-487-00 s MYLAR 0.022uF 5% 50V
                                                                    OLD) RY102 1-515-434-00 s RELAY, REED
                                                                    108) RY102 DELETED
           NOT IN USE
OLD) C139
           1-164-182-11 s CERAMIC, CHIP 3300PF 10% 100V
102) C139
           8-719-941-23 s DIODE DA204U
OLD) D101
108) D101 DELETED
OLD) D102 8-719-941-23 s D10DE DA204U
108) D102 DELETED
OLD) D105 8-719-941-23 s D10DE DA204U
                                                                    AU-149AP BOARD
108) D105 DELETED
                                                                    OLD) C101 1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
OLD) IC105 8-759-240-69 s IC TC4069UBP
                                                                    108) C101 DELETED
108) IC105 DELETED
                                                                               1-163-012-00 s CERAMIC, CHIP 1800PF 10% 50V
                                                                    0LD) C102
                                                                    108) C102
                                                                                DELETED
           8-729-143-07 s TRANSISTOR 2SA1610-Y33
OLD) 0101
                                                                    0LD) C103
                                                                                1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
            DELETED
108) 0101
                                                                    108) C103
                                                                                DELETED.
            8-729-143-07 s TRANSISTOR 2SA1610-Y33
OLD) 0102
108) 0102
            DELETED
                                                                               1-130-493-00 s MYLAR 0.068uF 5% 50V
           1-216-111-00 s METAL, CHIP 390K 5% 1/10W
                                                                    OLD) C120
OLD) R101
                                                                               1-130-487-00 s MYLAR 0.022uF 5% 50V
                                                                    109) C120
108) R101
            DELETED
                                                                                NOT IN USE
                                                                    OLD) C139
                                                                                1-164-182-11 s CERAMIC, CHIP 3300PF 10% 1 00V
                                                                    102) C139
OLD) R102 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
                                                                                8-719-941-23 s DIODE DA204U
                                                                     OLD) D101
            DELETED
108) R102
                                                                    108) D101
                                                                                DELETED
            1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
OLD) R103
 108) R103
            DELETED
                                                                    OLD) D102 8-719-941-23 s D10DE DA204U
            1-216-111-00 s METAL, CHIP 390K 5% 1/10W
 0LD) R104
                                                                     108) D102
                                                                                DELETED
 108) R104
            DELETED
                                                                                8-719-941-23 s DIODE DA204U
                                                                     0LD) D105
                                                                     108) D105 DELETED
 OLD) R105 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
                                                                     OLD) IC105 8-759-240-69 s IC TC4069UBP
 108) R105
            DELETED
                                                                     108) IC105 DELETED
            1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
 0LD) R106
 108) R106
            DELETED
                                                                     OLD) Q101
                                                                                8-729-143-07 s TRANSISTOR 2SA1610-Y33
            1-216-089-00 s METAL, CHIP 47K 5% 1/10W
 OLD) R107
                                                                     108) 0101
                                                                                DELETED
            DELETED
 108) R107
                                                                     OLD) Q102
                                                                                8-729-143-07 s TRANSISTOR 2SA1610-Y33
                                                                     108) 0102
 OLD) R132 1-216-049-00 s METAL, CHIP 1K 5% 1/10W
                                                                                DELETED
                                                                     0LD) R101
                                                                                1-216-111-00 s METAL, CHIP 390K 5% 1/10%
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 109) R132
            1-215-475-00 s METAL 180K 1% 1/6W
                                                                     108) R101
                                                                                DELETED
 OLD) R141
            DELETED
 108) R141
                                                                     0LD) R102
                                                                                1-216-065-00 s METAL, CHIP 4.7K 5% 1/10
            1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W
 OLD) R143
                                                                     108) R102
                                                                                DELETED
 108) R143 1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W
                                                                     OLD) R103
                                                                                1-216-065-00 s METAL, CHIP 4.7K 5% 1/10#
            1-215-493-00 s METAL 1M 1% 1/6W
                                                                     108) R103
                                                                                DELETED.
 OLD) R144
            1-215-485-00 s METAL 470K 1% 1/6W
1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W
                                                                                1-216-111-00 s METAL, CHIP 390K 5% 1/10
                                                                     0LD) R104
 108) R144
                                                                     108) R104
                                                                                DELETED
 OLD) R147
 108) R147 1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W OLD) R148 1-215-459-00 s METAL 39K 1% 1/6W
                                                                     OLD) R105 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10
                                                                     108) R105
                                                                                DELETED
 108) R148 1-215-467-00 s METAL 82K 1% 1/6W
                                                                                1-216-065-00 s METAL, CHIP 4.7K 5% 1/10
                                                                     0LD) R106
                                                                                DELETED
                                                                     108) R106
                                                                                1-216-089-00 s METAL, CHIP 47K 5% 1/10W
                                                                     0LD) R107
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108) R107

DELETED

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(CP-167A BOARD)
(AU-149AP BOARD)
           1-216-049-00 s METAL, CHIP 1K 5% 1/10W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-692-11 s METAL, CHIP 51K 0.5% 1/10W
                                                                         OLD) R232
                                                                                    1-247-903-00 s CARBON 1M 5% 1/4W
0LD) R132
                                                                         101) R232
                                                                                     1-216-121-00 s METAL, CHIP 1M 5% 1/10W
109) R132
                                                                         OLD) R337
                                                                                     1-247-903-00 s CARBON 1M 5% 1/4W
OLD) R143
                                                                                     1-216-121-00 s METAL, CHIP 1M 5% 1/10W
1-247-903-00 s CARBON 1M 5% 1/4W
108) R143
                                                                         101) R337
            1-215-493-00 s METAL 1M 1% 1/6W 1-215-459-00 s METAL 39K 1% 1/6W
                                                                         OLD) R338
OLD) R144
                                                                         101) R338
                                                                                     1-216-121-00 s METAL, CHIP 1M 5% 1/10W
108) R144
            1-215-467-00 s METAL 82K 1% 1/6W 1-215-477-00 s METAL 22OK 1% 1/6W
0LD) R148
108) R148
            NOT IN USE
OLD) R161
            1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
102) R161
            NOT IN USE
OLD) R162
                                                                         DR-118A BOARD
           1-216-667-11 s WETAL, CHIP 4.7K 0.5% 1/10W
102) R162
                                                                                     1-161-021-11 s CERAMIC 0.047uF 10% 25V
                                                                         OLD) C90
OLD) R343 NOT IN USE
                                                                          101) C90
102) R343 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
                                                                                     DELETED
                                                                                     1-124-120-11 s ELECT 220uF 20% 25V
1-124-478-11 s ELECT 100uF 20% 25V
                                                                          0LD) C103
OLD) RY101 1-515-434-00 s RELAY, REED
                                                                          108) C103
108) RY101 DELETED
                                                                                      1-124-907-11 s ELECT 10uF 20% 50V
                                                                          0LD) C908
OLD) RY102 1-515-434-00 s RELAY, REED
                                                                                      DELETED
                                                                          111) C908
108) RY102 DELETED
                                                                          OLD) C909
                                                                                      1-124-907-11 s ELECT 10uF 20% 50V
                                                                          111) C909
                                                                                      DELETED
                                                                          OLD) CN1A
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
                                                                          111) CN1A
                                                                                      DELETED
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
                                                                          OLD) CN1B
                                                                          111) CN1B
                                                                                      DELETED
AU-150A BOARD
             1-163-009-11 s CERAMIC, CHIP 1000PF 10% 50V
                                                                          OLD) CN2A
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
                                                                          102) CN2A
                                                                                      DELETED
             DELETED
                                                                          OLD) CN2B
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
OLD) 0211 8-729-905-12 s TRANSISTOR DTA144EU
                                                                          102) CN2B
                                                                                      DELETTED.
102) 0211 DELETED
OLD) 0212 8-729-905-12 s TRANSISTOR DTA144EU
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          OLD) CN3A
                                                                          111) CN3A
                                                                                      DELETED
 102) 0212 DELETED
                                                                          OLD) CN3B
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          111) CN3B
                                                                                      DELETED
                                                                          OLD) CN4A
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
                                                                          102) CN4A
                                                                                      DELETED
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
                                                                          OLD) CN4B
                                                                          102) CN4B
                                                                                      DELETED
CP-166A BOARD
 OLD) CN9 1-573-590-11 s CONNECTOR CIRCULAR 4P FEMALE
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          OLD) CN5A
 101) CN9 1-573-590-12 s CONNECTOR CIRCULAR 4P FEMALE
                                                                          111) CN5A
                                                                                      DELETED
                                                                          OLD) CN5B
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          111) CN5B
                                                                                      DELETED
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          OLD) CN6A
                                                                          111) CN6A
                                                                                      DELETED
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          OLD) CN6B
 CP-167A BOARD
                                                                          111) CN6B
                                                                                      DELETED.
                                                                          OLD) CN7A
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
 OLD) C112 1-161-772-11 s CERAMIC 0.1uF 10% 25V
                                                                          111) CN7A
                                                                                      DELETED
 101) C112 1-163-038-00 s CERAMIC, CHIP 0.1uF 25V OLD) C212 1-161-772-11 s CERAMIC 0.1uF 10% 25V
                                                                          OLD) CN7B
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
                                                                          111) CN7B
                                                                                      DELETED
            1-163-038-00 s CERAMIC, CHIP 0. 1uF 25V
 101) C212
             1-161-772-11 s CERAMIC 0.1uF 10% 25V
 OLD) C318
                                                                          OLD) CN8A
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
             1-163-038-00 s CERAMIC, CHIP 0. 1uF 25V
 101) C318
                                                                          111) CN8A
                                                                                      DELETED
                                                                          OLD) CN8B
                                                                                      1-506-468-11 s CONNECTOR 3P MALE
             1-161-772-11 s CERAMIC 0.1uF 10% 25V
 OLD) C319
                                                                          111) CN88
                                                                                      DELETED
             1-163-038-00 s CERAMIC, CHIP 0. 1uF 25V
 101) C319
                                                                          OLD) CN9A
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
             8-719-911-19 s DIODE 1SS119
 0LD) D103
                                                                          111) CN9A
                                                                                      DELETED
 101) D103
             8-719-123-82 s DIODE 1SS303
 0LD) D202
             8-719-911-19 s DIODE 1SS119
                                                                          OLD) CN9B
                                                                                      1-506-467-11 s CONNECTOR 2P MALE
 101) D202
             DELETED.
                                                                          111) CN9B
                                                                                      DELETED
                                                                                      8-719-911-19 s DIODE 1SS119
                                                                          OLD) D311
 0LD) D306
             8-719-911-19 s DIODE 1SS119
                                                                                      8-719-123-85 s DIODE 1SS304
                                                                          111) D311
 101) D3O6
             DELETED
                                                                          OLD) D312
                                                                                      8-719-911-19 s DIODE 1SS119
 0LD) D307
             8-719-911-19 s DIODE 1SS119
                                                                          111) D312 8-719-123-85 s DIODE 1SS304
 101) D3O7
             DELETED
             1-247-903-00 s CARBON 1M 5% 1/4W
 0LD) R132
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101) R132

1-216-121-00 s METAL, CHIP 1M 5% 1/10W

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(DR-118A BOARD)
OLD) IC201 8-759-710-28 s IC NJM4565M-A
104) IC201 8-759-981-11 s IC NJM4560M
OLD) IC302 8-759-710-28 s IC NJM4565M-A
104) IC302 8-759-981-11 s IC NJM4560M
OLD) IC501 8-759-710-28 s IC NJM4565M-A
104) IC501 8-759-981-11 s IC NJM4560M
OLD) IC901 NOT IN USE
102) IC901 8-759-701-79 s IC NJM7812FA
           8-729-209-07 s TRANSISTOR 2SC4213B
0LD) 0808
104) 0808
           DELETED
           8-729-209-07 s TRANSISTOR 2SC4213B
OLD) 0809
           DFLETED
104) 0809
OLD) 0955
           8-729-905-18 s TRANSISTOR DTC144EU
101) 0955
           DELETED
0LD) R20
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
           1-216-089-00 s METAL, CHIP 47K 5% 1/10W
105) R20
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
0LD) R22
            1-216-089-00 s METAL, CHIP 47K 5% 1/10W
105) R22
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
0LD) R24
            1-216-089-00 s METAL, CHIP 47K 5% 1/10W
105) R24
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
OLD) R26
            1-216-089-00 s METAL, CHIP 47K 5% 1/10W
105) R26
            NOT IN USE
OLD) R33
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
102) R33
OLD) R34
            NOT IN USE
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
102) R34
0LD) R35
            NOT IN USE
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
102) R35
            NOT IN USE
OLD) R36
            1-216-073-00 s WETAL, CHIP 10K 5% 1/10W
 102) R36
OLD) R37
            NOT IN USE
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 102) R37
OLD) R38
            NOT IN USE
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 102) R38
            1-249-413-11 s CARBON 470 5% 1/4W
0LD) R160
            1-216-041-00 s METAL, CHIP 470 5% 1/10W
 111) R160
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 OLD) R256
 108) R256
            1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 OLD) R257
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R257
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 0LD) R266
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R266
            1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 OLD) R267
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R267
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 0LD) R276
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R276
            1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 OLD) R277
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R277
            1-216-073-00 s METAL, CHIP 10K 5% 1/10W
 0LD) R286
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R286
            1-216-081-00 s METAL, CHIP 22K 5% 1/10W
 0LD) R287
            1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W
 108) R287
            1-216-295-00 s METAL, CHIP 0
 OLD) R313
 101) R313
            DELETED
            1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W
 0LD) R401
            1-216-670-11 s METAL, CHIP 6.2K 0.5% 1/10W
 108) R401
            1-217-666-31 s SHORT 0.01 1/6W
 OLD) R902
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HC_14C_ROARD
OLD) R131 1-249-425-11 s CARBON 4.7K 5% 1/4W
102) R131 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
OLD) R500 1-216-295-00 s METAL, CHIP 0
102) R500 DELETED
MA-44A BOARD
          1-161-772-11 s CERAMIC 0.1uF 10% 25V
OLD) C29
           1-164-004-11 s CERAMIC, CHIP 0. 1uF 10% 25V
102) C29
           1-161-772-11 s CERAMIC 0.1uF 10% 25V
OLD) C30
           1-164-004-11 s CERAMIC, CHIP 0. 1uF 10% 25V
102) C30
           8-719-911-19 s DIODE 1SS119
OLD) D3
           8-719-123-82 s DIODE 1SS303
102) D3
0LD) D4
           8-719-911-19 s DIODE 1SS119
102) D4
           DELETED
           1-247-903-00 s CARBON 1M 5% 1/4W
OLD) R59
           1-216-121-00 s METAL, CHIP 1M 5% 1/10W
102) R59
           1-247-903-00 s CARBON 1M 5% 1/4W
0LD) R60
102) R60
           1-216-121-00 s METAL, CHIP 1M 5% 1/10W
0LD) R61
           1-247-903-00 s CARBON 1M 5% 1/4W
            1-216-121-00 s METAL, CHIP 1M 5% 1/10W
102) R61
           1-247-903-00 s CARBON 1M 5% 1/4W
OLD) R62
            1-216-121-00 s METAL, CHIP 1M 5% 1/10W
102) R62
MB-322A BOARD
OLD) C101 NOT IN USE
105) C101 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) C102 NOT IN USE
105) C102 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V
OLD) CN226 1-565-882-11 s CONNECTOR 10P MALE
109) CN226 DELETED
PD-56 BOARD
0LD) C1
            1-162-730-11 s CERAMIC 680PF 1% 50V
103) C1
            DELETED
0LD) C2
            1-162-730-11 s CERAMIC 680PF 1% 50V
103) C2
            DELETED.
OLD) R1
            1-249-428-11 s CARBON 8.2K 5% 1/4W
108) R1
            DELETED
OLD) R2
            1-249-428-11 s CARBON 8.2K 5% 1/4W
108) R2
            DELETED
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DELETED

111) R902

TBC-18P BOARD RP-57AP BOARD 1-126-101-11 s ELECT 100uF 20% 16V OLD) C387 1-161-053-00 s CERAMIC 0.015uF 10% 50V OLD) C702 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-124-477-11 s ELECT 47uF 20% 16V 101) C387 109) C702 OLD) C549 101) C549 1-162-718-11 s CERAMIC 220PF 1% 50V OLD) C703 1-126-101-11 s ELECT 100uF 20% 16V 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 109) C703 1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 1-162-718-11 s CERAMIC 220PF 1% 50V OLD) C550 OLD) C706 1-124-477-11 s ELECT 47uF 20% 16V 101) C550 1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 109) C706 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V 1-126-101-11 s ELECT 100uF 20% 16V OLD) C796 OLD) C713 1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 102) C796 109) C713 OLD) C807 NOT IN USE OLD) C714 1-124-477-11 s ELECT 47uF 20% 16V 1-126-101-11 s ELECT 100uF 20% 16V 107) C807 1-124-903-11 s ELECT 1uF 20% 50V 109) C714 OLD) C810 NOT IN USE 0LD) C717 1-124-477-11 s ELECT 47uF 20% 16V 1-161-051-00 s CERAMIC 0.01uF 10% 50V 107) C810 109) C717 OLD) C811 NOT IN USE OLD) C719 1-126-101-11 s ELECT 100uF 20% 16V 107) C811 1-124-477-11 s ELECT 47uF 20% 16V 1-161-051-00 s CERAMIC 0.01uF 10% 50V 109) C719 1-126-101-11 s ELECT 100uF 20% 16V OLD) C820 NOT IN USE OLD) C721 1-162-718-11 s CERAMIC 220PF 1% 50V 1-124-477-11 s ELECT 47uF 20% 16V 105) C820 109) C721 OLD) C870 1-126-101-11 s ELECT 100uF 20% 16V 1-124-477-11 s ELECT 47uF 20% 16V 1-124-903-11 s ELECT 1uF 20% 50V OLD) C722 107) C870 DELETED. 109) C722 OLD) C725 1-126-101-11 s ELECT 100uF 20% 16V OLD) D308 8-719-123-82 s DIODE 1SS303 109) C725 1-124-477-11 s ELECT 47uF 20% 16V 102) D308 DELETED OLD) D505 8-719-123-82 s DIODE 1SS303 102) D505 DELETED OLD) IC501 8-759-513-77 s IC CXD81520 105) IC501 8-759-055-71 s IC CXD83130 0LD) 1C502 8-759-513-77 s iC CXD81520 105) 1C502 8-759-055-71 s iC CXD83130 SS-48P BOARD OLD) IC503 8-752-337-41 s IC CXD1206M OLD) C524 1-163-137-00 s CERAMIC, CHIP 680PF 5% 50V 107) IC503 8-752-340-75 s IC CXD1206AM OLD) IC504 8-752-337-41 s IC CXD1206M 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V 111) C524 NOT IN USE 107) IC504 8-752-340-75 s IC CXD1206AM OLD) C625 1-126-157-11 s ELECT 10uF 20% 16V 8-719-941-23 s D10DE DA204U 111) C625 OLD) D801 OLD) IC505 8-752-337-41 s IC CXD1206M 8-719-800-76 s DIODE 1SS226 107) IC505 8-752-340-75 s IC CXD1206AM 103) D801 OLD) IC506 8-752-337-41 s IC CXD1206M 8-752-337-78 s IC CXK58257AM-10L 107) 1C506 8-752-340-75 s IC CXD1206AM IC6 **0LD**) 8-759-515-54 s IC MS62256CLL-10FC-EF OLD) IC730 NOT IN USE 106 OLD) IC303 8-752-323-63 s IC CXK5816M-10L 101) 1C730 8-759-234-20 s IC TC7S08F IC303 8-759-054-54 s IC SRM2016M10 IC406 8-752-323-63 s IC CXK5816M-10L 103) 0LD) L3 1-412-533-11 s INDUCTOR 47uH 1-412-533-31 s INDUCTOR 47uH (ע וּט 1C406 8-759-054-54 s IC SRM2016M10 104) L3 103) 1-216-069-00 s METAL, CHIP 6.8K 5% 1/10W 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W 0LD) R317 IC607 8-759-514-41 s IC AM27C010-150DC OLD) 107) R317 IC607 8-759-089-73 s IC C010-PW2000SV220 1-249-421-11 s CARBON 2.2K 5% 1/4W 109) 0LD) R352 IC612 8-752-323-63 s IC CXK5816M-10L 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 101) R352 OLD) IC612 8-759-054-54 s IC SRM2016M10 103) OLD) IC707 8-752-323-63 s IC CXK5816M-10L OLD) R389 1-249-429-11 s CARBON 10K 5% 1/4W 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-249-429-11 s CARBON 10K 5% 1/4W IC707 8-759-054-54 s IC SRM2016M10 101) R389 103) OLD) R487 OLD) 1C707 8-759-054-54 s IC SRM2016M10 101) R487 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1C7O7 8-752-323-63 s 1C CXK5816M-10L 108) 8-729-905-18 s TRANSISTOR DTC144EU OLD) 0805 8-729-901-01 s TRANSISTOR DTC144EK 103) 0805 1-216-073-00 s METAL, CHIP 10K 5% 1/10W 1-216-079-00 s METAL, CHIP 18K 5% 1/10W 0LD) R484 103) R484 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W 0LD) R527 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 103) R527 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W 0LD) R527 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W 111) R527 NOT IN USE 0LD) R672 1-216-097-00 s METAL, CHIP 100K 5% 1/10W 103) R672 1-216-061-00 s METAL CHIP 3.3K 5% 1/10W 0LD) R831 1-216-081-00 s METAL, CHIP 22K 5% 1/10W 1-216-077-00 s METAL, CHIP 15K 5% 1/10W 101) R831

1-216-089-00 s METAL, CHIP 47K 5% 1/10W

OLD) R838

107) C154 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V OLD) C708 1-163-222-11 s CERAMIC, CHIP 5PF 50V 106) C708 1-163-227-11 s CERAMIC, CHIP 10PF 0.5PF 50V OLD) C766 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 103) C766 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V OLD) C770 1-163-097-00 s CERAMIC, CHIP 15PF 5% 50V 103) C770 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V OLD) C773 NOT IN USE 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V 106) C773 OLD) C774 NOT IN USE 106) C774 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V OLD) 0790 1-107-202-00 s MICA 10PF 5% 500V 1-163-227-11 s CERAMIC, CHIP 10PF 5% 50V 106) 0790 OLD) CN205 NOT IN USE 106) CN205 1-506-467-11 s CONNECTOR 2P MALE OLD) CN705 NOT IN USE 106) CN705 1-506-467-11 s CONNECTOR 2P MALE OLD) FL702 1-236-091-11 s FILTER, LOW-PASS 106) FL702 DELETED OLD) L721 NOT IN USE 1-408-419-00 s INDUCTOR 68uH 8-729-905-18 s TRANSISTOR DTC144EU 106) L721 OLD) 0202 106) 0202 DELETED 8-729-143-07 s TRANSISTOR 2SA1610-Y33 OLD) 0262 8-729-905-12 s TRANSISTOR DTA144EU 109) 0262 8-729-143-07 s TRANSISTOR 2SA1610-Y33 OLD) 0265 8-729-905-12 s TRANSISTOR DTA144EU 109) 0265 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 0LD) R103 1-216-295-00 s METAL, CHIP 0 101) R103 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W OLD) R104 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 101) R104 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 0LD) R107 1-216-295-00 s METAL, CHIP 0 101) R107 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W OLD) R108

VP-33AP BOARD OLD) C154 1-163-113-00 s CERAMIC, CHIP 68PF 5% 50V 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W 101) R108 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W OLD) R141 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 103) R141 1-216-073-00 s METAL, CHIP 10K 5% 1/10W OLD) R229 106) R229 DELETED 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W OLD) R254 1-216-663-91 s METAL, CHIP 3.3K 0.5% 1/10W 107) R254 1-216-025-00 s METAL, CHIP 100 5% 1/10W 0LD) R278 DELETED 103) R278 1-216-025-00 s METAL, CHIP 100 5% 1/10W OLD) R281 103) R281 DELETED 1-216-638-11 s METAL, CHIP 300 0.5% 1/10W OLD) R337 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 109) R337 NOT IN USE OLD) R362 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 109) R362 NOT IN USE OLD) R363 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W 109) R363 NOT IN USE 0LD) R364 1-216-049-00 s METAL, CHIP 1K 5% 1/10W 109) R364 OLD) R365 NOT IN USE 1-216-063-00 s METAL, CHIP 3.9K 5% 1/10W 109) R365 NOT IN USE OLD) R368 1-216-664-11 s METAL 3.6K 0.5% 1/10W 109) R368 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W OLD) R554

1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W

(VP-33AP BOARD)

0LD) 106) 0LD) 103) 0LD) 103)	R558	1-216-025-00 DELETED	s	METAL, CHIP 0 METAL, CHIP 100 5% 1/10W METAL, CHIP 100 5% 1/10W
0LD) 109) 0LD) 109) 0LD) 109)	R636 R636 R644 R644 R649 R649		s s s	METAL 560 0.5% 1/10W METAL 620 0.5% 1/10W METAL, CHIP 8.2K 0.5% 1/10W METAL, CHIP 6.8K 0.5% 1/10W METAL 7.5K 0.5% 1/10W
106) 0LD) 106) 0LD)	R981 R1001	1-216-651-11 1-247-405-11 1-216-025-00 1-216-041-00	s s s s	METAL 1K 1% 1/6W METAL, CHIP 1K 0.5% 1/10W CARBON 100 5% 1/4W METAL, CHIP 100 5% 1/10W METAL, CHIP 470 5% 1/10W METAL, CHIP 220 5% 1/10W
112) OLD) 110) OLD)	R1001 R2001 R2001 R3001	1-216-041-00 1-216-041-00 1-216-033-00) s) s) s) s	METAL, CHIP 220 5% 1/10W METAL, CHIP 470 5% 1/10W METAL, CHIP 470 5% 1/10W METAL, CHIP 220 5% 1/10W METAL, CHIP 470 5% 1/10W METAL, CHIP 470 5% 1/10W
103) 0LD) 109)	RV112 RV504 RV504 RV505	1-238-016-1 1-238-802-1 1-238-801-1 1-238-802-1 1-238-801-1 1-238-802-1	s s s	RES, ADJ CARBON 10K RES, ADJ CERMET 10K RES, ADJ CERMET 5K RES, ADJ CERMET 10K RES, ADJ CERMET 5K RES, ADJ CERMET 10K
103) 0LD) 109) 0LD)	RV719 TH301 TH301 TH601	NOT IN USE	s	RES, ADJ CARBON 1K RES, ADJ CERMET 1K THERMISTOR S-1250 THERMISTOR S-1250

101) R554